Control Reference Manual

USA Edition



tiastar MCC Simocode Pro

SIEMENS

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1. Introduction

The intent of this manual is to familiarize the reader with a library of standard control circuits to be used in conjunction with Sirius Motor Management and Control Devices, also known as SIMOCODE Pro.

SIMOCODE Pro is a flexible, modular motor management system that combines virtually all functions required for a complete motor feeder. The only additional components required are switching and short-circuit protection mechanisms of the main circuit (contactors, circuit breakers, fuses, etc.).

SIMOCODE Pro replaces large, complex sections of the control circuit and automatically implements all required connections. It provides a considerable amount of operating, service and diagnostic data, increasing the actionable information provided by the motor feeder. It completely integrates the motor feeder into a comprehensive automation system via Profibus DP communication.

There are two varieties of SIMOCODE Pro:

- SIMOCODE Pro C a compact system for full-voltage non-reversing and reversing starters providing control and monitoring capabilities via a standard Operator Panel.
- SIMOCODE Pro V a variable system with many additional functions and features.
 - o Starter functions for star-delta; two-speed one-winding; two-speed two-winding and reduced voltage soft starters – with or without reversing control.
 - o Two digital modules to increase the number and type of binary inputs and outputs.
 - o A Current/Voltage Measuring Module that provides additional measurement and monitoring of voltage and other power-related values (power management).
 - o A Temperature Module to evaluate analog temperature sensors.
 - o An Earth-Fault detection system integrated with a summation current transformer for sensitive grounding systems.
 - o An Analog Module to extend the system by adding analog inputs and outputs, such as fill level or flow-rate monitoring.
 - o An Operator Panel with Display (OPD) that provides control, indication and status of all data stored within the device.

SIMOCODE Pro C is upward-compatible with SIMOCODE Pro V. This means both levels can be used simultaneously to meet specific requirements throughout a facility.

SIMOCODE Pro is customized for a particular application by storing one of the functional circuits described in this manual into programmable, non-volatile memory of each device. Each control circuit includes the input commands and output control logic required for a specific application.

SIMOCODE Pro functions can also be customized using an optional Windows-based software application to develop highly specialized control circuits or to modify a standard control circuit. SIMOCODE ES is a powerful, user-friendly program that uses pull-down menus to select the desired functionality. The program then translates these selections for download to the SIMOCODE Pro non-volatile memory.

For more information, or to purchase SIMOCODE Pro or SIMOCODE ES, please contact your local SIEMENS sales office.

2. General terms

Control Command: Input sent from the control station screen to start, stop, and/or change the direction of a motor.

Control Method: There are four input locations (Local Control, PLC/DCS, PC, and Operator Panel) from which commands may be sent to control SIMOCODE Pro operations. Each may be set independently from the others. (See Control Method Releases & Operation Mode Selector.)

Control Method Releases: For each control mode, there are four stations (Local Control, PLC/DCS, PC, and Operator Panel) that can have control enabled (ON) and/or disabled (OFF). (See Control Method & Operation Mode Selector.)

Control Selection: The act of choosing between Local Control, Remote Control, and Remote Parameterization Control (if available) using the Operation Mode Selector.

Control Station: Interface screen in SIMOCODE ES used to assign operation mode selection and operations control within each control method.

FAST: Describes the higher capacity contactor in a two speed motor starter. Used as the designation on contactor coils, push buttons, and operator panel buttons.

Fixed Level: A setting within the SIMOCODE ES software that provides a maintained high (1) or low (0) signal. Used in logic circuits to limit the number of variables or provide a constant signal.

FVNR: The non-reversing starter uses the 1M contactor to connect the motor terminals directly across the line for single-speed, single-direction, full-voltage operation.

FVR: The reversing starter uses the FWD & REV contactors to connect the motor terminals in positive or negative phase sequence for single-speed, dual-direction, and full-voltage operation. The FWD & REV contactors are mechanically and electrically interlocked to prevent short circuiting of the input lines.

FWD: Abbreviation for forward. Describes the clockwise rotating contactor in a reversing motor starter. Used as the designation on contactor coils, push buttons, and operator panel buttons.

Local Operation Mode: To command the starter unit using hardwired inputs or the operator panel.

Local Control (LC): Control method used to assign the actions for controls placed at the SIMOCODE Pro inputs.

Local Overload Operation – Remote Monitoring: To bypass the SIMOCODE Pro for command of the starter unit and use PROFIBUS DP communication for monitoring.

OFF Control Command: Input used to send a STOP command. Note: Local Control (LC) Method requires a normally closed contact. This will ensure shut down if a wire break occurs.

OL/FVNR; OL/EVR; OL/2S1W; OL/2S2W: Use of the SIMOCODE Pro as an overload only. Control commands must be performed external to the Simocode Pro. Monitoring over Profibus DP is still possible.

ON > Control Command: Input used to send a FWD and SLOW run command.

ON < Control Command: Input used to send a REV and SLOW run command.

ON >> **Control Command:** Input used to send a FWD and FAST run command.

ON << Control Command: Input used to send a REV and FAST run command.

Operation Mode Selector: A two input truth table used to choose between up to four different control modes (Local 1, Local 2, Local 3, and Remote). See Control Methods & Control Method Releases.

Operator Panel (OP): Control method used to assign the actions from the SIMOCODE Pro Operator Panel buttons.

PC (DPV1): Control Method used to assign the actions sent from a remote Class II workstation or laptop via Profibus DP. Must be able to utilize Profibus DPV1 protocol.

PLC/DCS (DP): Control method used to assign the actions sent from a remote Class I master PLC/DCS via Profibus DP.

Profibus Cyclic Receive Bit: Control information sent from the PLC/DCS to the SIMOCODE Pro via Profibus DP.

Profibus Cyclic Send Bit: Status information sent from the SIMOCODE Pro to the PLC/DCS via Profibus DP.

Remote Operation Mode: To control the starter unit via PROFIBUS DP communication without rights to change parameter data.

Remote Parameterization Operation Mode: To control the starter unit via Profibus DP communication with rights to change parameter data.

2. General terms (continued)

SIMOCODE ES: Windows-based software program used to parameterize the SIMOCODE Pro motor management device.

SLOW: Describes the lower capacity contactor in a two speed motor starter. Used as the designation on contactor coils, push buttons, and operator panel buttons.

Two Wire Control: Characterized by maintained contact closure. Signal must always be present for operation of the contactor. Typically, two wire control provides voltage release protection, but no voltage return protection. In the event of control circuit power loss, the contactor would de-energize (voltage release protection), but would re-energize once control circuit power was restored, if the maintained contact was still closed (no voltage return protection). Proceed with caution.

Three Wire Control: Characterized by momentary contact closure. Signal needs only a pulse for operation of the contactor. Typically three wire control provides voltage release protection and voltage return protection. In the event of control circuit power loss the contactor would de-energize (voltage release protection). Once control circuit power was restored, a momentary start contact closure would be required before the contactor would engage (voltage return protection).

2S1W: The two-speed, one-winding starter uses the SLOW contactor to select low-speed and the FAST & SHORT contactors to select high-speed for dual-speed, single-direction, full-voltage operation. The SLOW and SHORT contactors are mechanically and electrically interlocked to prevent short circuits on the input lines.

2S2W: The two-speed, two-winding starter uses the SLOW contactor to select low-speed and the FAST contactor to select high-speed for dual-speed, single direction, full-voltage operation. The SLOW and FAST contactors are mechanically and electrically interlocked to prevent short circuits on the input lines.

Starter	Program	Mode	Control Type	Input A	Ē	ents	Ī	Ī	ı	Ī	ı	- 1						_	⋍⋷	ssignm	ents		ŀ	ŀ	T
	Block	Selection Type		ᆵ	BQ INZ	B IN3	B 4	9 E	OP OP B3	9 P B B4	9 4 N	11 DM1	11 DM1	1 M 1 1 1 1 1 1	DM2 IN1	DM2 IN2	DM2 IN3	DM2 IN4 O	BU B	BU OUT2	BU DM1 OUT3 OUT1	DM1	DM1 DM2 OUT2 OUT1	<u>25</u>	DM2 OUT2
FVNR	PB01	Fixed	Local OL - Remote Monitoring						\parallel		H	-													
FVNR	PB02	Profibus Bit	Local 2 wire SS - Remote 2 wire	NO														шО	FWD						
FVNR	PB03	Profibus Bit	Local 2 wire SS - Remote 3 wire	NO														I	FWD						
FVNR	PB04	Profibus Bit	Local 3 wire PB - Remote 2 wire	START	STOP													E 0	FWD						
FVNR	PB05	Profibus Bit	Local 3 wire PB - Remote 3 wire	START	STOP													Е О	FWD						
FVNR	PB06	Profibus Bit	Local 3 wire OP - Remote 2 wire						S	START ST	STOP							ш О	FWD						
FVNR	PB07	Profibus Bit	Local 3 wire OP - Remote 3 wire						S	START ST	STOP							ш О	FWD						
FVNR	PB08	Profibus Bit	No Local - Remote 2 wire	NO O														LE 0	WD						
FVNR	PB09	Profibus Bit	No Local - Remote 3 wire	NO														ш О	FWD						
FVNR	PB10	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND			AUTO											шО	WD						
FVNR	PB11	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND			AUTO											ш О	FWD						
FVNR	PB12	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND	HAND		AUTO											ш. О	WD						
FVNR	PB13	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND	HAND		AUTO											12.0	FWD						
FVNR	PB14	Operator Panel	Local 3 wire OP - Remote 2 wire					AUTO	S	START ST	STOP							ш О	FWD						
FVNR	PB15	Operator Panel	Local 3 wire OP - Remote 3 wire					AUTO	S	START ST	STOP							шО	WD						
FVR	PB16	Fixed	Local OL - Remote Monitoring															ш. О	FWD R	REV					
FVR	PB17	Profibus Bit	Local 2 wire SS - Remote 2 wire	FWD		REV												шО		REV COIL					
FVR	PB18	Profibus Bit	Local 2 wire SS - Remote 3 wire	FWD		REV												шО		REV COIL					
FVR	PB19	Profibus Bit	Local 3 wire PB - Remote 2 wire	FWD	STOP	REV												Р		EV					
FVR	PB20	Profibus Bit	Local 3 wire PB - Remote 3 wire	FWD	STOP	REV												H 0		E E					
FVR	PB21	Profibus Bit	Local 3 wire OP - Remote 2 wire						REV FI	FWD S1	STOP							п О		S E					
FVR	PB22	Profibus Bit	Local 3 wire OP - Remote 3 wire						REV FI	FWD S1	STOP							F 0		EN EN					
FVR	PB23	Profibus Bit	No Local - Remote 2 wire	FWD		REV												ш О		REV					
FVR	PB24	Profibus Bit	No Local - Remote 3 wire	FWD		REV												T O		S E					
FVR	PB25	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND		HAND	AUTO											п О		REV					
FVR	PB26	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND		HAND	AUTO											ш. О		일					
FVR	PB27	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND	HAND	HAND	AUTO											1110		REV					
FVR	PB28	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND			AUTO											H 0		REV					
FVR	PB29	Operator Panel	Local 3 wire OP - Remote 2 wire				-	AUTO	REV FWD		STOP							ΕО		REV					
FVR	PB30	Operator Panel	Local 3 wire OP - Remote 3 wire					AUTO	REV FI	FWD S1	STOP							О	FWD R	REV					

		Mode	Control Type	T A	signme												ŏ	utput Ass	Output Assignments			
Туре		Block Selection Type		BU IN1	BU IN2	BU IN3	BU IN4	OP C	OP OP B2 B3	OP B4	IN1	DM1 IN2	DM1 IN3	DM1 DM2 IN4 IN1	2 DM2 IN2	DM2 IN3	DM2 BU IN4 OU	BU BU OUT1 OUT2	BU T2 OUT3	DM1 OUT1	DM1 DM2 OUT2 OUT1	DM2 1 OUT2
251W	PB31	Fixed	Local OL - Remote Monitoring														FAST			кт		
251W	PB32	Profibus Bit	Local 2 wire SS - Remote 2 wire	SLOW		FAST											FAST	ST SLOW	W SHORT L COIL	T.		
2S1W	PB33	Profibus Bit	Local 2 wire SS - Remote 3 wire	SLOW		FAST											FAST			KT		
2S1W	PB34	Profibus Bit	Local 3 wire PB - Remote 2 wire	SLOW	STOP	FAST											FAST	ST SLOW	W SHORT L COIL	т		
2S1W	PB35	Profibus Bit	Local 3 wire PB - Remote 3 wire	SLOW	STOP	FAST											FAST			τ		
2S1W	PB36	Profibus Bit	Local 3 wire OP - Remote 2 wire					4	FAST SLO	SLOW STOP							FAST	ST SLOW		tΤ		
2S1W	PB37	Profibus Bit	Local 3 wire OP - Remote 3 wire					4	FAST SLO	SLOW STOP							FAST			tΤ		
2S1W	PB38	Profibus Bit	No Local - Remote 2 wire	SLOW		FAST											FAST	ST SLOW	W SHORT L COIL	tΤ		
251W	PB39	Profibus Bit	No Local - Remote 3 wire	SLOW		FAST											FAST	ST SLOW	W SHORT L COIL	Þ		
251W	PB40	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND SLOW		HAND	AUTO										₹ S			Þ		
2S1W	PB41	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND SLOW		HAND FAST	AUTO										FAST	ST SLOW		τ		
2S1W	PB42	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND	HAND HAND STOP FAST		AUTO										FAST		W SHORT L COIL	tΤ		
251W	PB43	Selector Switch	Local 3 wire SS/PB - Remote 3 wire		HAND HAND STOP FAST		AUTO										<u>₽</u> 0			F		
2S1W	PB44	Operator Panel	Local 3 wire OP - Remote 2 wire					AUTO F	FAST SLO	SLOW STOP							FAST	ST SLOW	W SHORT L COIL	tΤ		
2S1W	PB45	Operator Panel	Local 3 wire OP - Remote 3 wire					AUTO FAST	AST SLO	SLOW STOP							FAST		W SHORT L COIL	Ι		
252W	PB46	Fixed	Local OL - Remote Monitoring														FAST	ST SLOW	JW I			
252W	PB47	Profibus Bit	Local 2 wire SS - Remote 2 wire	SLOW		FAST											2 ℃		J.			
252W	PB48	Profibus Bit	Local 2 wire SS - Remote 3 wire	SLOW		FAST											2 ℃		J.			
252W	PB49	Profibus Bit	Local 3 wire PB - Remote 2 wire	SLOW	STOP	FAST											FAST		JW I			
252W	PB50	Profibus Bit	Local 3 wire PB - Remote 3 wire	SLOW	STOP	FAST											FAST		JW			
252W	PB51	Profibus Bit	Local 3 wire OP - Remote 2 wire						FAST SLO	SLOW STOP							2 ℃		J.			
252W	PB52	Profibus Bit	Local 3 wire OP - Remote 3 wire						FAST SLO	SLOW STOP							FAST		JW.			
252W	PB53	Profibus Bit	No Local - Remote 2 wire	SLOW		FAST											FAST		J.			
252W	PB54	Profibus Bit	No Local - Remote 3 wire	SLOW		FAST											FAST		L V			
252W	PB55	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND SLOW		HAND	AUTO										FAST		JW I			
252W	PB56	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND SLOW		HAND FAST	AUTO										F. C.	ST SLOW	JW.			
252W	PB57	Selector Switch	Local 3 wire SS/PB - Remote 2 wire		HAND STOP		AUTO										FAST		L VW			
252W	PB58	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	- 1	HAND HAND STOP FAST		AUTO										원생		N/C			
252W	PB59	Operator Panel	Local 3 wire OP - Remote 2 wire					AUTO F	FAST SLOW STOP	W STOP							FAST		N J			
252W	PB60	Operator Panel	Local 3 wire OP - Remote 3 wire					AUTO	FAST SLO	SLOW STOP			\dashv	-	_		FAST	ST SLOW	N/V			

Starter	Program	Mode	Control Type	Input A:	Input Assignments	ıts												_	Output Assignments	signmer	ıts				
Туре	Block	Selection Type		BU IN	BG IN2	BU IN3	BR NA	9 18	OP C	OP B3	OP DM1 B4 IN1	1 DM1	IN3	IN4 IN4	IN1	DM2 IN2	DM2 IN3	DM2	BU BI OUT1 O	BU OUT2	BU OUT3	DM1 DN	DM1 OUT2	DM2 OUT1	DM2 OUT2
3RW40 W/ ISO	PB62	Profibus Bit	Local 2 wire SS - Remote 2 wire	NO		RVSS	RVSS												ISO	E 0	RVSS				
3RW40 W/ ISO	PB63	Profibus Bit	Local 2 wire SS - Remote 3 wire	NO		RVSS FAULT	RVSS												ISO	E 0	RVSS				
3RW40 W/ ISO	PB64	Profibus Bit	Local 3 wire PB - Remote 2 wire	START	STOP	RVSS FAULT	RVSS												ISO	E 0	RVSS				
3RW40 W/ ISO	PB65	Profibus Bit	Local 3 wire PB - Remote 3 wire	START	STOP	RVSS FAULT	RVSS												SO	E 0	RVSS				
3RW40 W/ ISO	PB66	Profibus Bit	Local 3 wire OP - Remote 2 wire			RVSS FAULT	RVSS		, , , , , , , , , , , , , , , , , , ,	START S	STOP								SO	E 0	RVSS				
3RW40 W/ ISO	PB67	Profibus Bit	Local 3 wire OP - Remote 3 wire			RVSS FAULT	RVSS		- 51	START S	STOP								ISO	<u> </u>	RVSS				
3RW40 W/ ISO	PB68	Profibus Bit	No Local - Remote 2 wire	NO		RVSS	RVSS												ISO	E 0	RVSS				
3RW40 W/ ISO	PB69	Profibus Bit	No Local - Remote 3 wire	ON		RVSS	RVSS												ISO	# O	RVSS				
3RW40 W/ ISO	PB70	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND	RVSS	RVSS	АПТО												COIL	E 0	RVSS				
3RW40 W/ ISO	PB71	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND	RVSS	RVSS FAULT	АПТО												COIL	E 0	RVSS				
3RW40 W/ ISO	PB72	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND	HAND		AUTO				RVSS	SS RVSS	SS -						COIL	<u> </u>	RVSS				
3RW40 W/ ISO	PB73	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND START	HAND		AUTO				RVSS	SS JLT							COIL	# O	RVSS				
3RW40 W/ ISO	PB74	Operator Panel	Local 3 wire OP - Remote 2 wire			RVSS FAULT	RVSS /	AUTO	- 01	START S	STOP								COIL	E 0	RVSS				
3RW40 W/ ISO	PB75	Operator Panel	Local 3 wire OP - Remote 3 wire			RVSS FAULT	RVSS /	AUTO	51	START S	STOP								ISO	# O	RVSS				
3RW40 W/BYP	PB77	Profibus Bit	Local 2 wire SS - Remote 2 wire	RVSS	RVSS	BYPASS	RVSS												ISO BY	BYP COIL	RVSS				
3RW40 W/ BYP	PB78	Profibus Bit	Local 2 wire SS - Remote 3 wire	RVSS	RVSS FAULT	BYPASS	RVSS												ISO BY	BYP F	RVSS				
3RW40 W/BYP	PB79	Profibus Bit	Local 3 wire PB - Remote 2 wire	RVSS	STOP	BYPASS					RVSS FAULT	SS RVSS	SS -						ISO BY	BYP F	RVSS				
3RW40 W/ BYP	PB80	Profibus Bit	Local 3 wire PB - Remote 3 wire	RVSS	STOP	BYPASS					RVSS FAULT	SS RVSS	SS =						ISO BY	BYP	RVSS				
3RW40 W/ BYP	PB81	Profibus Bit	Local 3 wire OP - Remote 2 wire			RVSS FAULT	RVSS	80	BYPASS R	RVSS S	STOP								ISO BY	BYP F	RVSS				
3RW40 W/ BYP	PB82	Profibus Bit	Local 3 wire OP - Remote 3 wire			RVSS	RVSS		BYPASS R	RVSS S	STOP								ISO BY	BYP COIL	RVSS				
3RW40 W/ BYP	PB83	Profibus Bit	No Local - Remote 2 wire	RVSS	RVSS FAULT	BYPASS	RVSS												ISO BY	BYP F	RVSS				
3RW40 W/ BYP	PB84	Profibus Bit	No Local - Remote 3 wire	RVSS	RVSS FAULT	BYPASS	RVSS												ISO BY	BYP	RVSS				
3RW40 W/ BYP	PB85	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND RVSS		HAND BYPASS	AUTO				RVSS	SS RVSS	SS -						ISO BY	BYP F	RVSS				
3RW40 W/ BYP	PB86	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND RVSS		HAND BYPASS	АОТО				RVSS	SS RVSS	SS						ISO BY	BYP COIL	RVSS				
3RW40 W/ BYP	PB87	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND	HAND	HAND BYPASS	AUTO				RVSS FAULT	SS RVSS	SS -						ISO BY	BYP F	RVSS				
3RW40 W/ BYP	PB88	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND RVSS	HAND	HAND BYPASS	АПТО				RVSS FAULT	SS RVSS	SS =						ISO BY	BYP	RVSS				
3RW40 W/ BYP	PB89	Operator Panel	Local 3 wire OP - Remote 2 wire			RVSS FAULT	RVSS A	AUTO	BYPASS R	RVSS S	STOP								ISO BY	COIL	RVSS				

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Block	Selection lype		3 E	NZ INZ			OP OP B1 B2	0P B3	g <u>8</u>	N I	DM1	DM1 IN3 IN4	1 IN1	DM2 IN2	DM2 IN3	DM2 IN4			U UT3 OUT1	11 DM1 T1 OUT2	1 DM2	2 DM2 11 OUT2
PB92	Profibus Bit	Local 2 wire SS - Remote 2 wire	NO			NSS																
PB93	Profibus Bit	Local 2 wire SS - Remote 3 wire	NO			NSS										20			ا ا			
PB94	Profibus Bit		START	STOP		SSN										20			o id			
PB95	Profibus Bit		START	STOP		SSN										20			o id			
PB96	Profibus Bit	Local 3 wire OP - Remote 2 wire			RVSS R FAULT R	RVSS		START	T STOP							20		RVSS IS RESET CO	ISO			
PB97	Profibus Bit	Local 3 wire OP - Remote 3 wire				SSS		START	T STOP							20			o id			
PB98	Profibus Bit	No Local - Remote 2 wire	NO			SSS IUN										20			o id			
PB99	Profibus Bit	No Local - Remote 3 wire	NO			S NO.										20			0			
PB100	Selector Switch	Local 2 wire SS - Remote 2 wire	HAND			010										20			0			
PB101	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND	RVSS		AUTO										20			0 ನ			
PB102	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND			AUTO					RVSS					20			0 15			
PB103	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND	HAND		AUTO				RVSS	RVSS					20			o ii			
PB104	Operator Panel	Local 3 wire OP - Remote 2 wire				RVSS A	AUTO	START	T STOP							20		l	ا ا			
PB105	Operator Panel	Local 3 wire OP - Remote 3 wire			RVSS R FAULT R		AUTO	START	T STOP							20						
3RW44 W/ BYP PB107	Profibus Bit	Local 2 wire SS - Remote 2 wire	RVSS								RVSS					20				COIL BYP		
l		Local 2 wire SS - Remote 3 wire	RVSS		BYPASS					RVSS	RVSS					20		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB109	Profibus Bit		RVSS	STOP	BYPASS						RVSS					20		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB110	Profibus Bit	Local 3 wire PB - Remote 3 wire	RVSS	STOP	BYPASS						RVSS					₩ 0		VSS	ISC	COIL BYP		
3RW44 W/ BYP PB111	Profibus Bit	Local 3 wire OP - Remote 2 wire					BYPASS	SS RVSS	STOP		RVSS					20		VSS ESET	ISC	COIL BYP		
		Local 3 wire OP - Remote 3 wire					BYPASS	SS RVSS	STOP		RVSS					20		VSS	ISC	COIL BYP		
3RW44 W/ BYP PB113	Profibus Bit	No Local - Remote 2 wire	RVSS		BYPASS					RVSS FAULT	RVSS					N N		/SS	OSI	COIL BYP		
3RW44 W/ BYP PB114	Profibus Bit	No Local - Remote 3 wire	RVSS		BYPASS						RVSS					N N		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB115			HAND RVSS			AUTO					RVSS					20		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB116	Selector Switch	Local 2 wire SS - Remote 3 wire	HAND RVSS			AUTO					RVSS					20		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB117	Selector Switch	Local 3 wire SS/PB - Remote 2 wire	HAND RVSS			AUTO					RVSS					20		/SS	ISC	COIL BYP		
3RW44 W/ BYP PB118	Selector Switch	Local 3 wire SS/PB - Remote 3 wire	HAND RVSS	HAND STOP		AUTO					RVSS					20	RVSS RV COIL RE	/SS :SET	ISC	ISO COIL BYP		
3RW44 W/ BYP PB119	Operator Panel	Local 3 wire OP - Remote 2 wire				•	AUTO BYPASS	ASS RVSS	S STOP	RVSS FAULT	RVSS							RVSS	CC	ISO BYP	٠ -	
3RW44 W/ BYP PB120		Operator Panel Local 3 wire OP - Remote 3 wire					AUTO BYPASS	ASS RVSS	S STOP	RVSS	RVSS						RVSS	RVSS	SI	ISO BYP		

4. Full voltage non-reversing

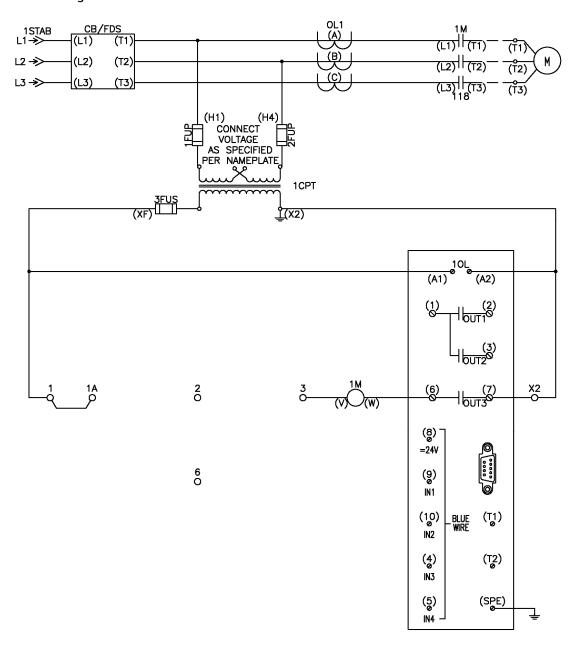
The non-reversing starter uses the 1M contactor to connect the motor terminals directly across the line for single-speed, single-direction, full-voltage operation.

The basic operation of this starter is as follows.

- 1. A local or remote start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 1 closes which energizes the coil of 1M Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 1 opens which de-energizes the coil of 1M Contactor.
- 5. If a fault occurs at any time, the SIMOCODE Pro will end the starter operation.

PB01

OL / FVNR - Fixed Operation Mode Local Overload Operation – Remote Monitoring



PB01

OL / FVNR – Fixed Operation Mode Local Overload Operation – Remote Monitoring

Operating Instructions

Local Control

- 1. All control external to device.
- 2. In the event of an Overload or any other General Fault event the SIMOCODE Output 3 will open.

Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

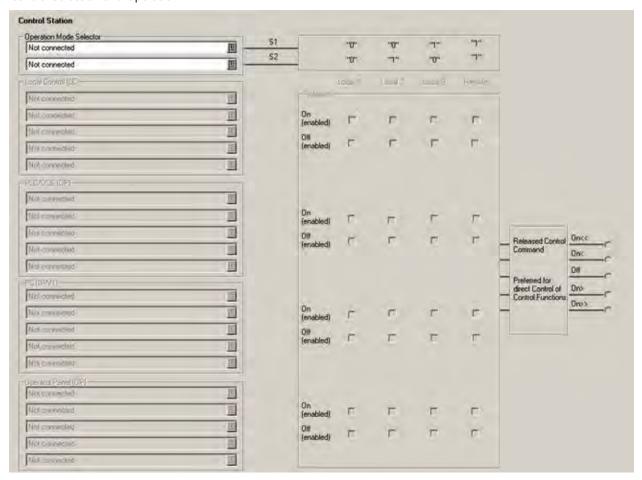
NOTE:

This setup is not recommended as its use eliminates local control of the starter via Simocode Pro as well as remote control over Profibus DP network communication

PB01

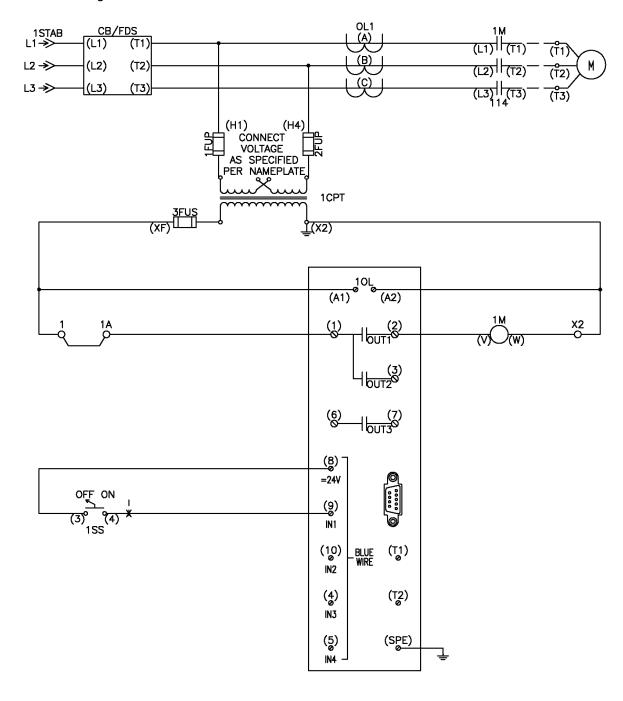
OL / FVNR - Fixed Operation Mode -Local Overload Operation – Remote Monitoring

Parameter Detail



PB02

FVNR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB02

FVNR - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the selector switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M contactor the selector switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an overload or any other general fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus cyclic receive bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

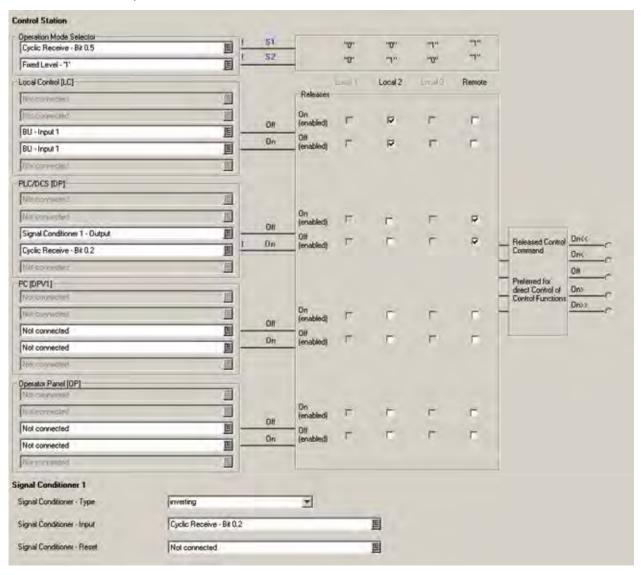
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB02

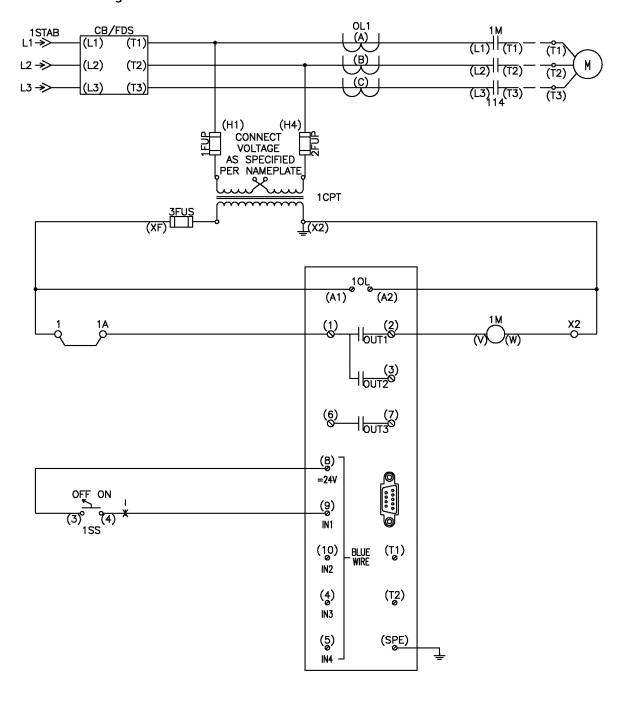
FVNR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB03

FVNR - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire



PB03

FVNR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Selector Switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

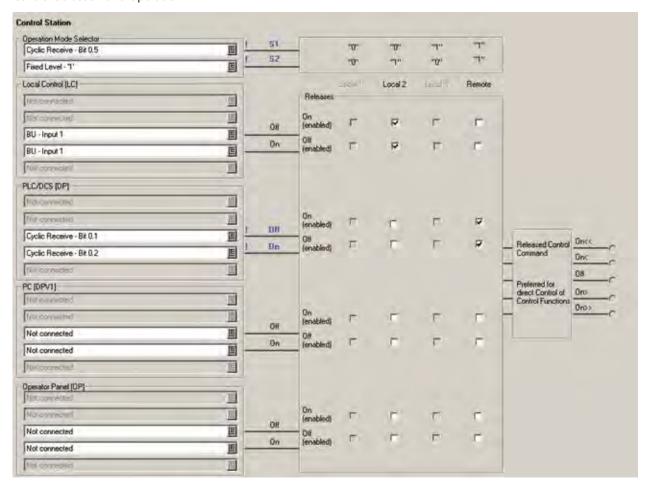
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB03

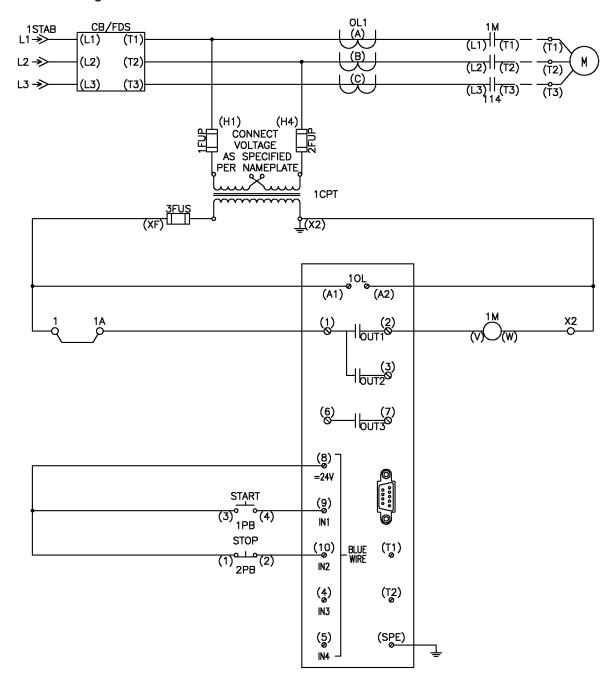
FVNR - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire

Parameter Detail



PB04

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire



PB04

FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open, which in turn de-energizes the 1M Contactor Coil thus disengaging the 1M Contactor ceasing current flow to the motor.

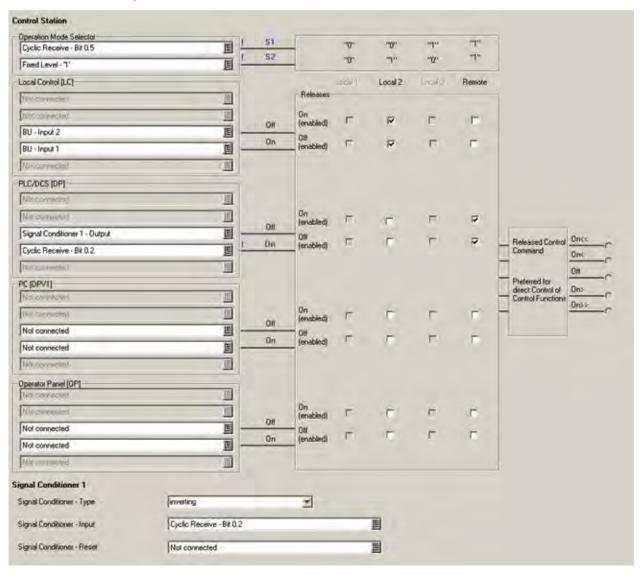
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB04

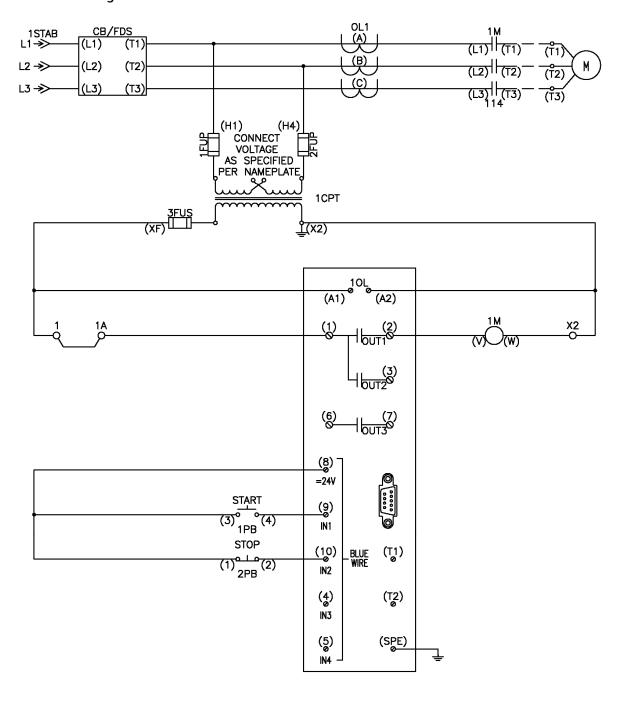
FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire

Parameter Detail



PB05

FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 3-Wire



PB05

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

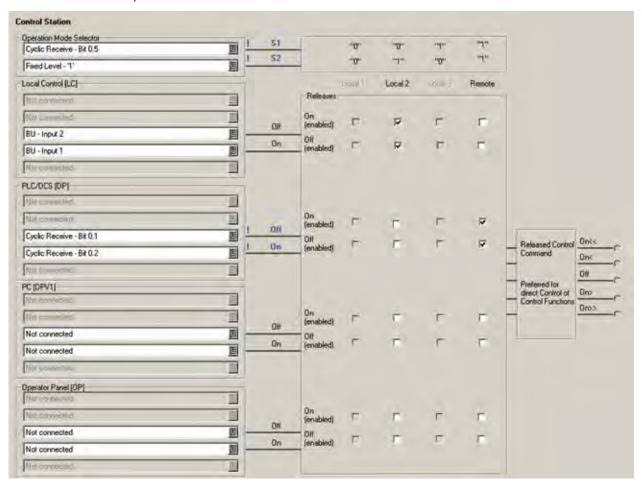
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB05

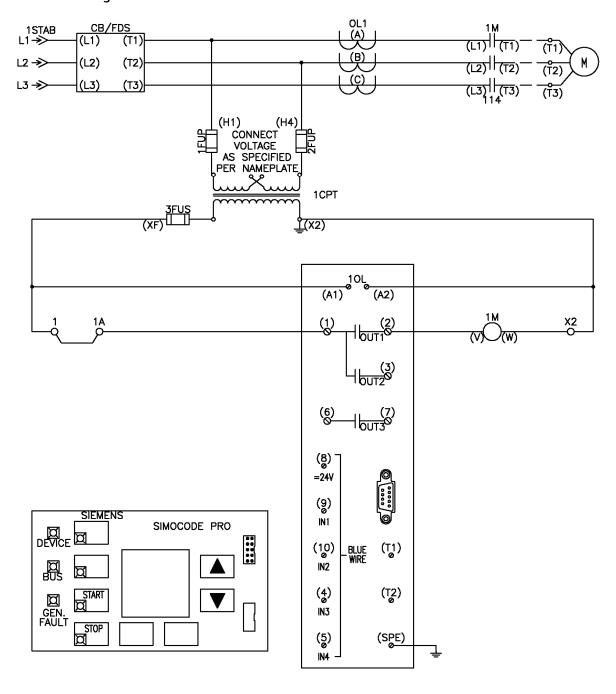
FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 3-Wire

Parameter Detail



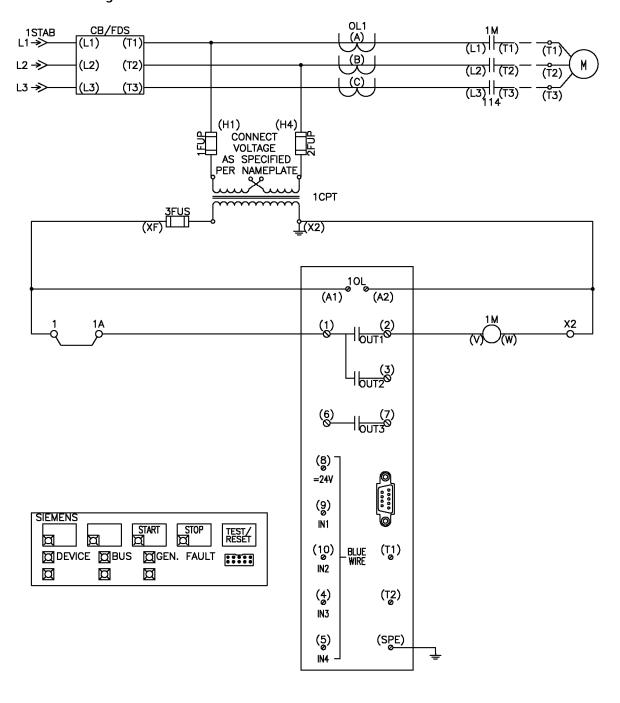
PB06

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB06

FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 2-Wire



PB06

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the 1M Contactor the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

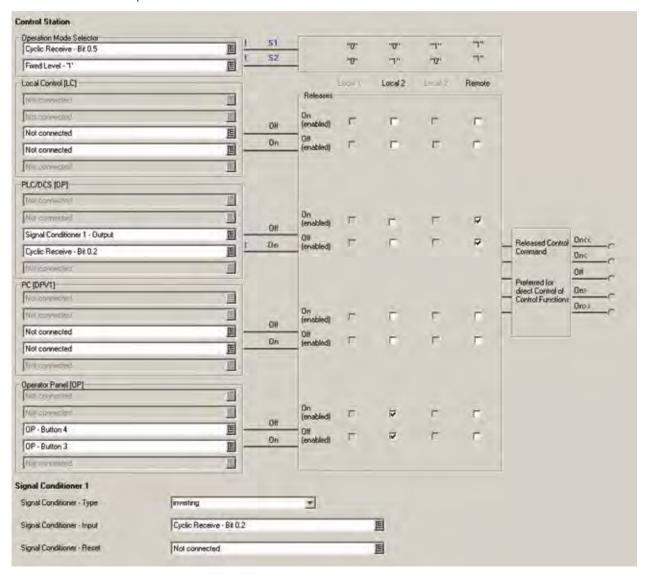
Reset Control

General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus
Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if
so equipped.

PB06

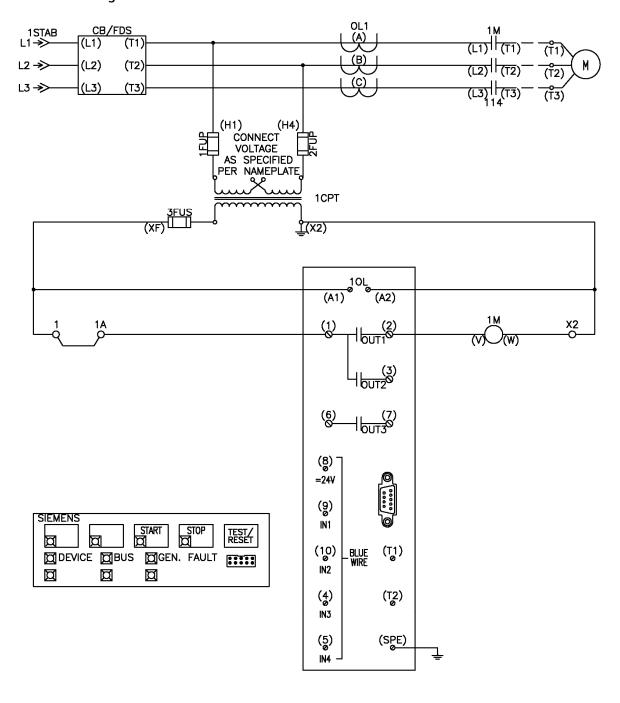
FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire OP(OPD) - Remote 2-Wire

Parameter Detail



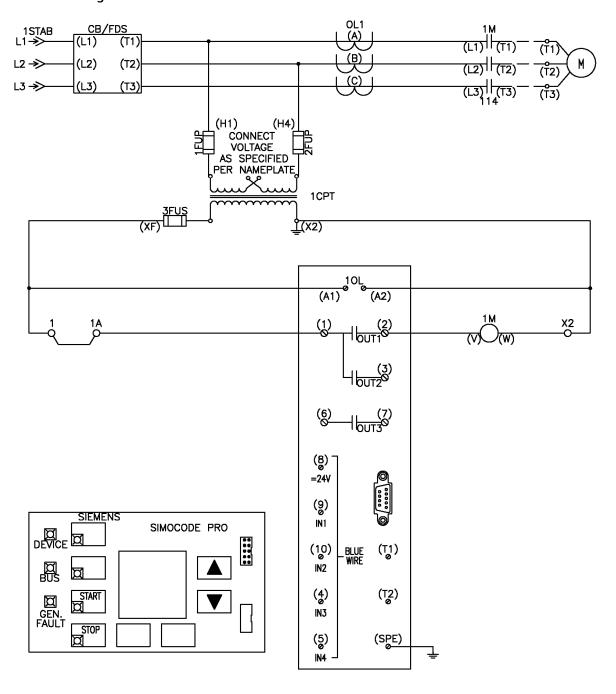
PB07

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire



PB07

FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 3-Wire



PB07

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the 1M Contactor the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

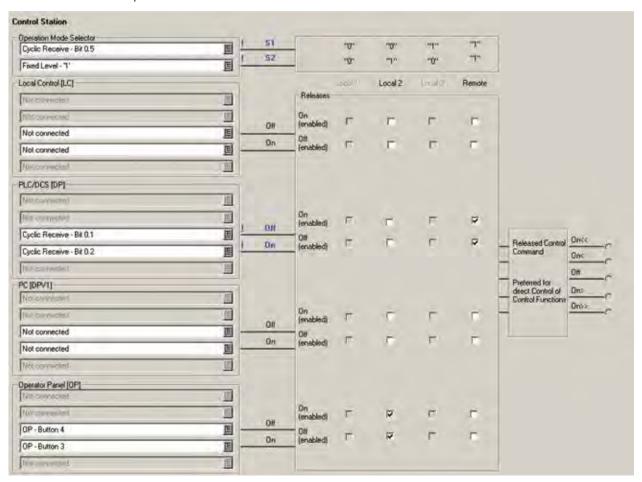
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB07

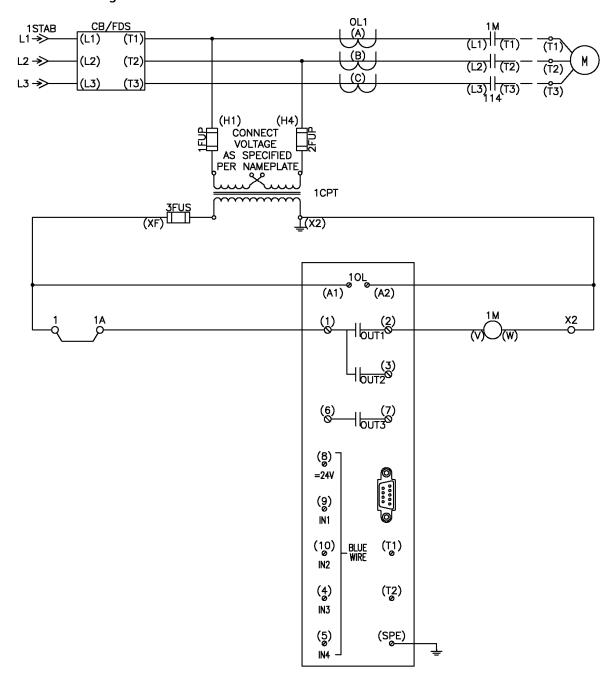
FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire OP(OPD) - Remote 3-Wire

Parameter Detail



PB08

FVNR – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire



PB08

FVNR - Profibus Bit Operation Mode Selection -No Local - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3, To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

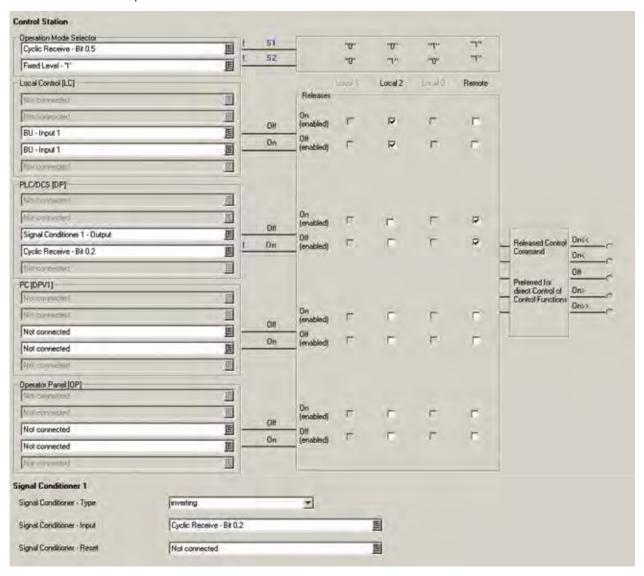
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB08

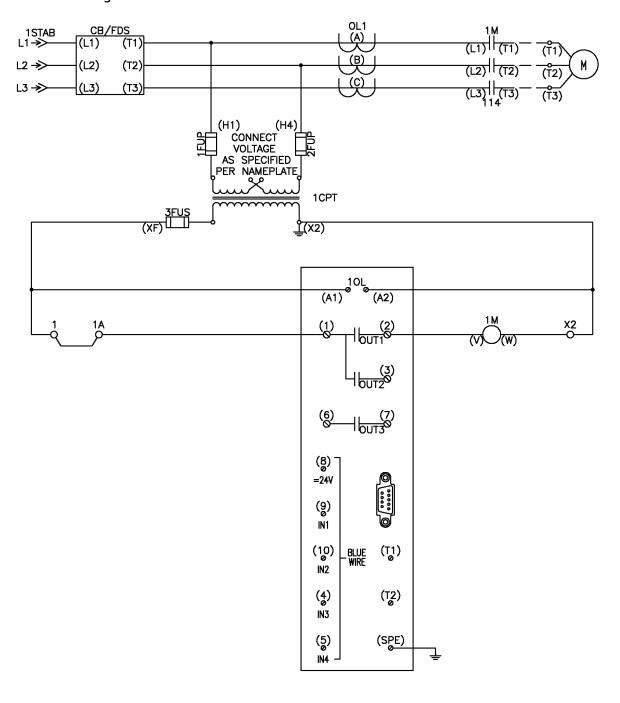
FVNR – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire

Parameter Detail



PB09

FVNR - Profibus Bit Operation Mode Selection -No Local - Remote 3-Wire



PB09

FVNR – Profibus Bit Operation Mode Selection – Local 3-Wire SS – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

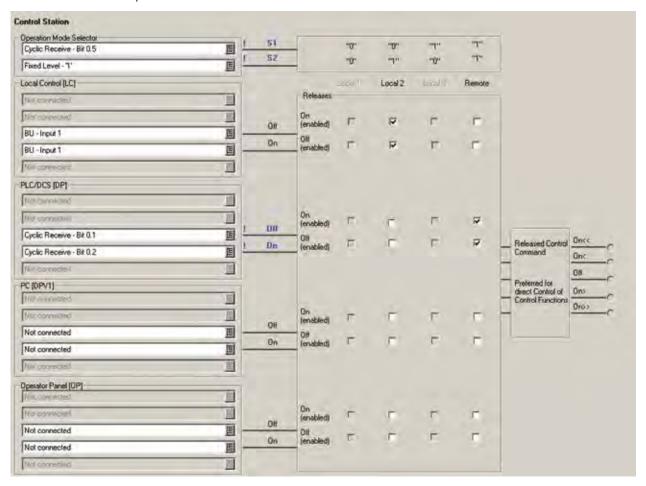
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB09

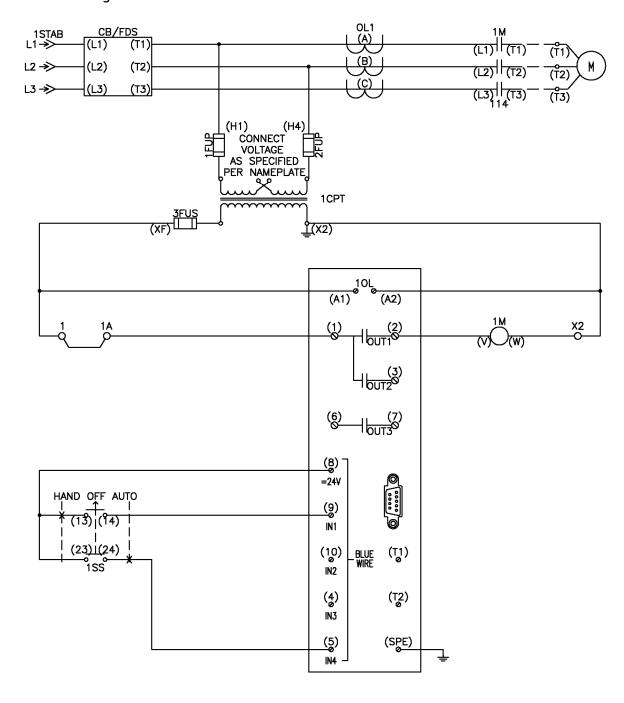
FVNR - Profibus Bit Operation Mode Selection -Local 3-Wire SS - Remote 2-Wire

Parameter Detail



PB10

FVNR – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB10

FVNR - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

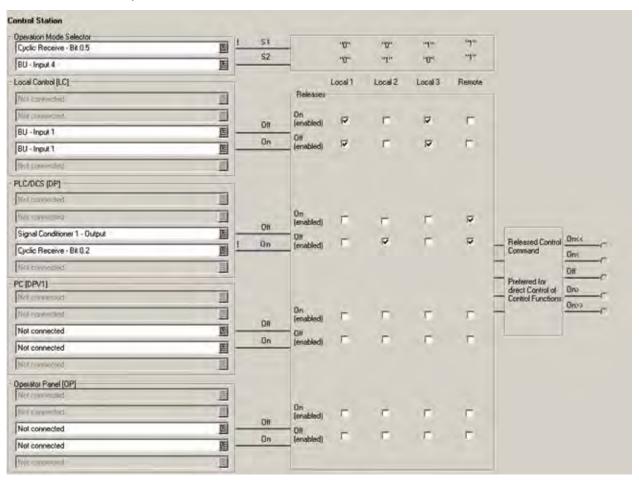
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB10

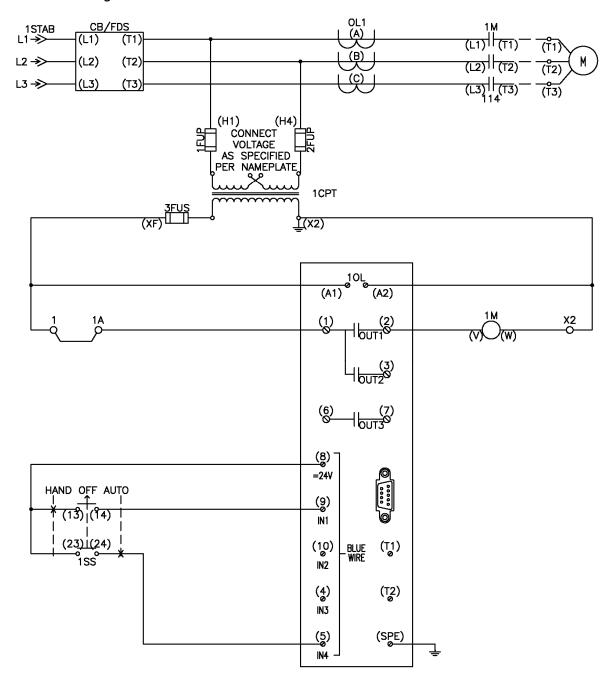
FVNR – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB11

FVNR - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire



PB11

FVNR – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

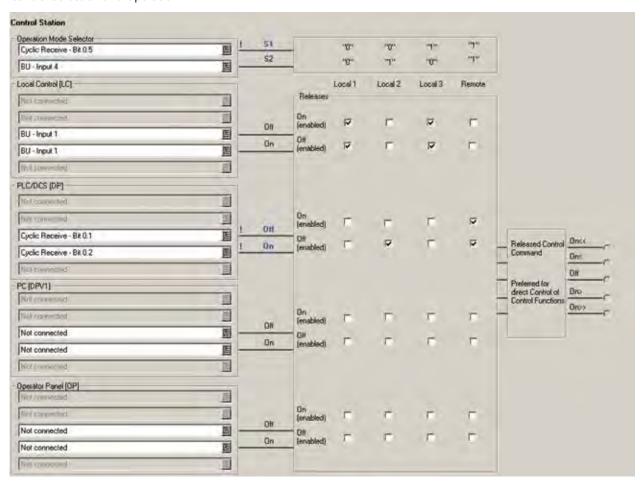
Reset Control

General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus
Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if
so equipped.

PB11

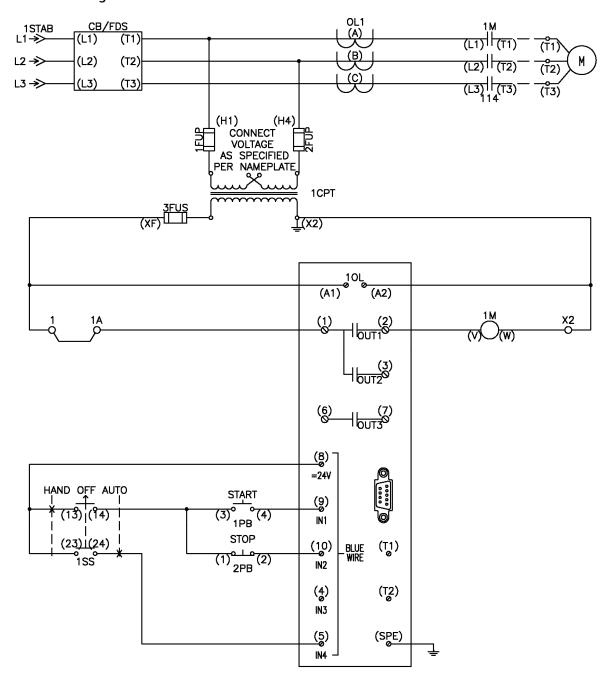
FVNR - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire

Parameter Detail



PB12

FVNR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire



PB12

FVNR - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Selector Switch is placed into the HAND position and the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

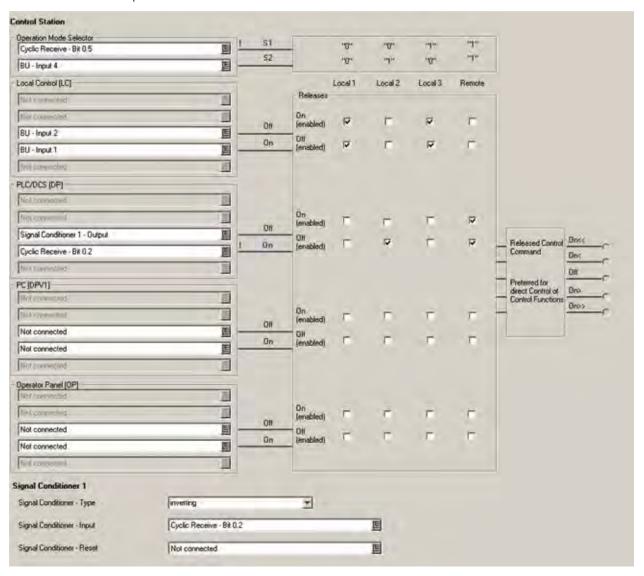
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB12

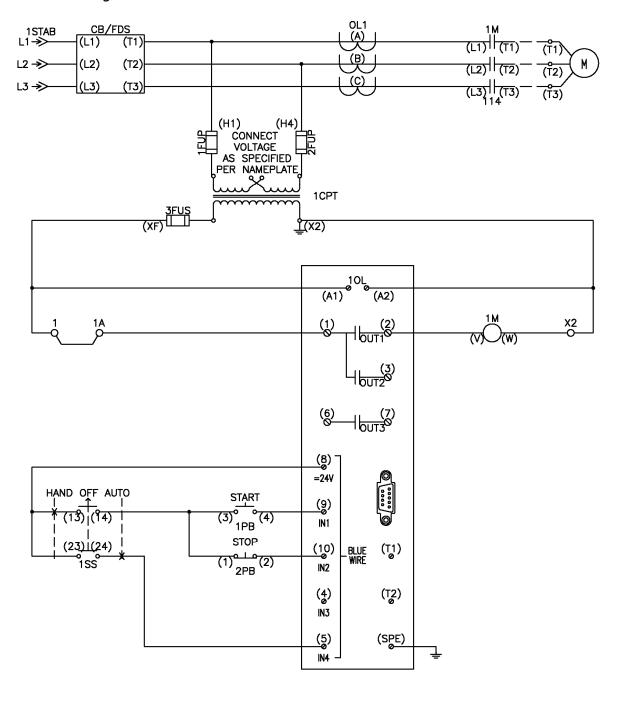
FVNR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Parameter Detail



PB13

FVNR - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 3-Wire



PB13

FVNR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the 1M Contactor the Selector Switch is placed into the HAND position and the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor two the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

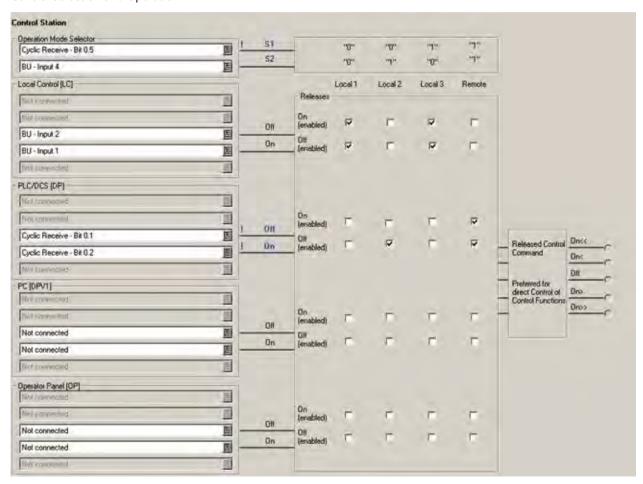
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB13

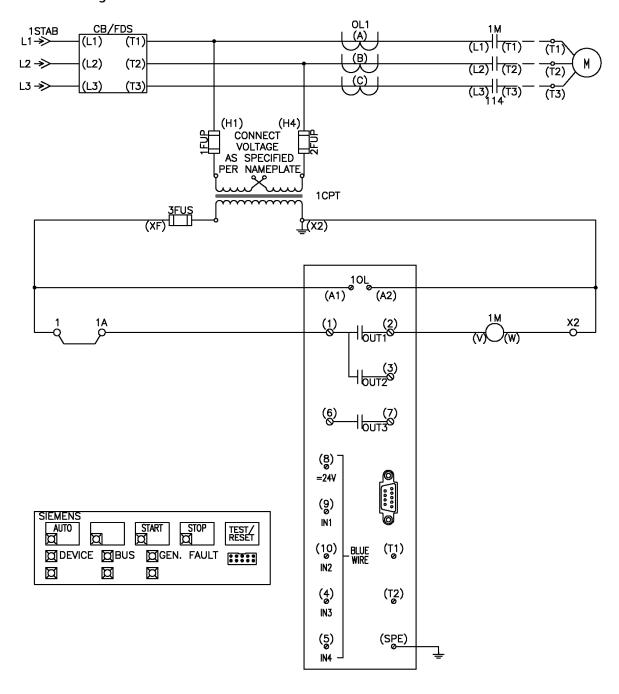
FVNR - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 3-Wire

Parameter Detail



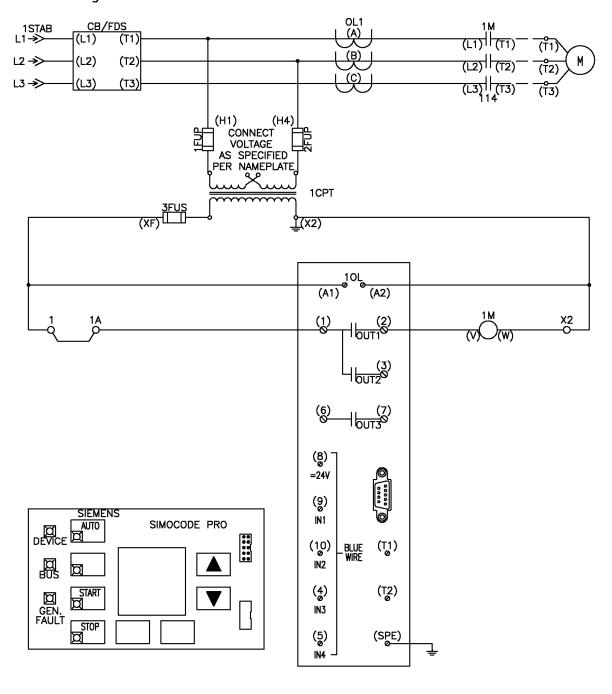
PB14

FVNR – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB14

FVNR - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 2-Wire



PB14

FVNR – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the 1M Contactor the START Button is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the STOP Operator Panel Button is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

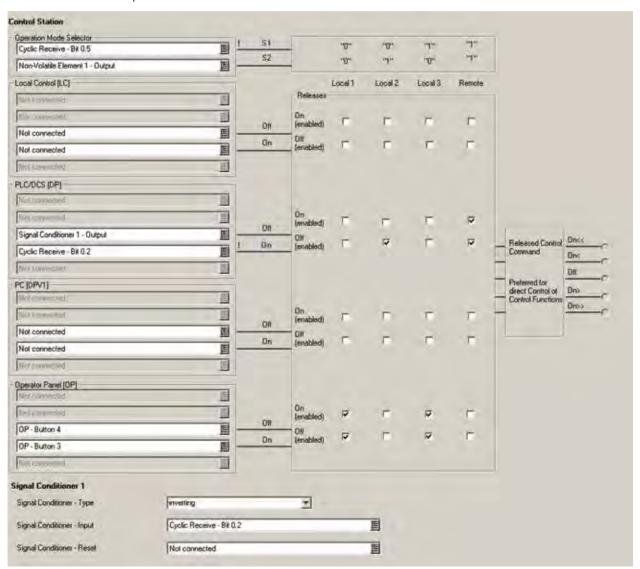
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB14

FVNR - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire

Parameter Detail

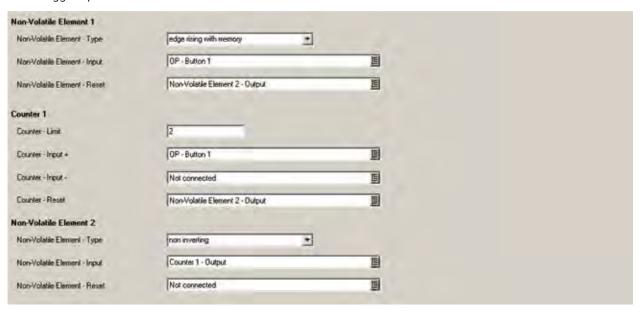


PB14

FVNR – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

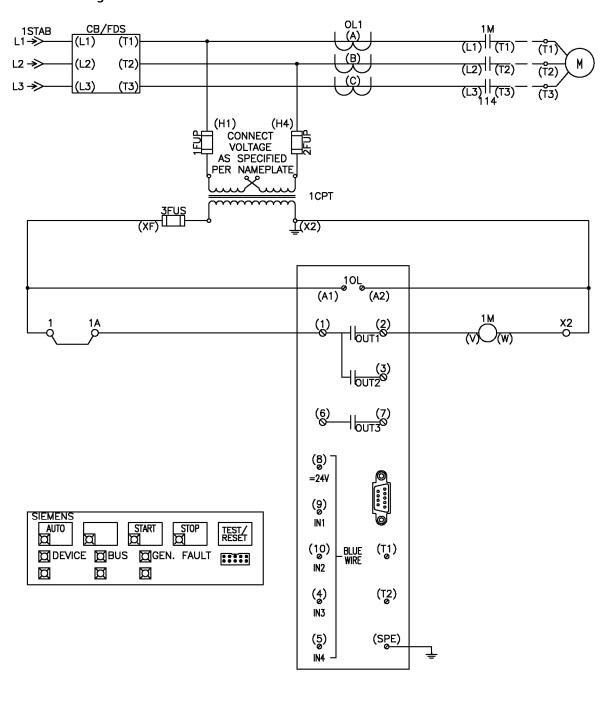
Parameter Detail

AUTO Toggle Operation



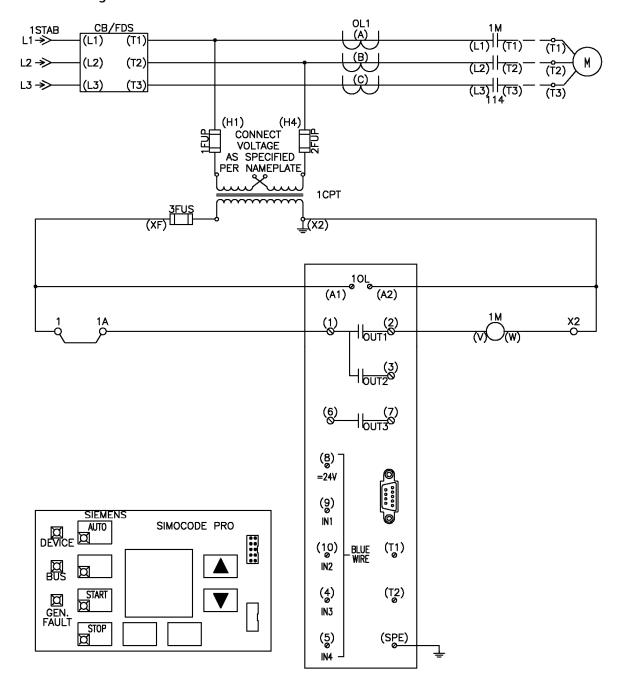
PB15

FVNR - Operator Panel Operation Mode Selection -Local 3-Wire OP – Remote 3-Wire



PB15

FVNR – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire



PB15

FVNR - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the 1M Contactor the START Button is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the STOP Operator Panel Button is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 4. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the 1M Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To disengage the 1M Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open. o In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

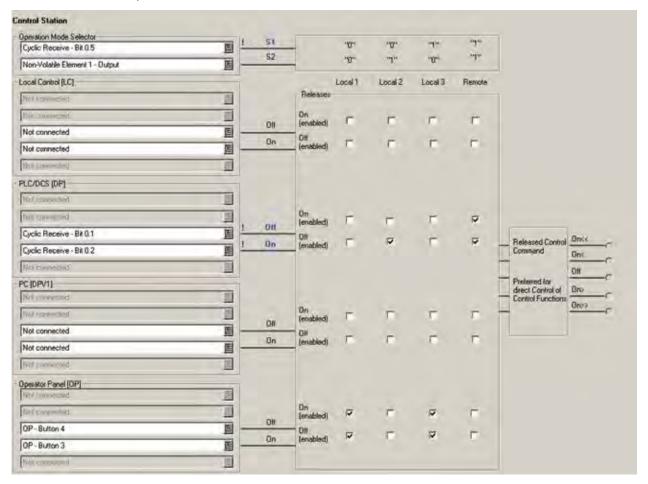
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB15

FVNR – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail

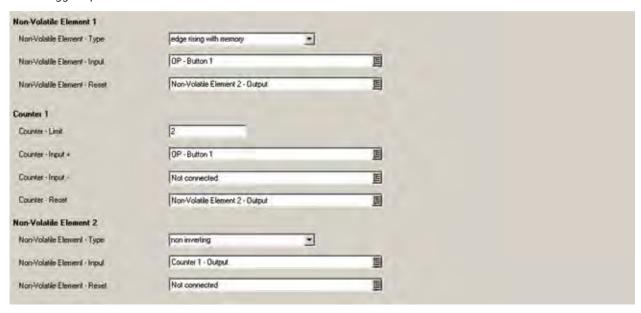


PB15

FVNR - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail

AUTO Toggle Operation



5. Full voltage reversing

The reversing starter uses the FWD & REV contactors to connect the motor terminals in positive or negative phase sequence for single-speed, dual-direction, full-voltage operation. The FWD & REV contactors are mechanically and intelligently interlocked to prevent short circuiting of the input lines.

The basic FORWARD operation of this starter is as follows.

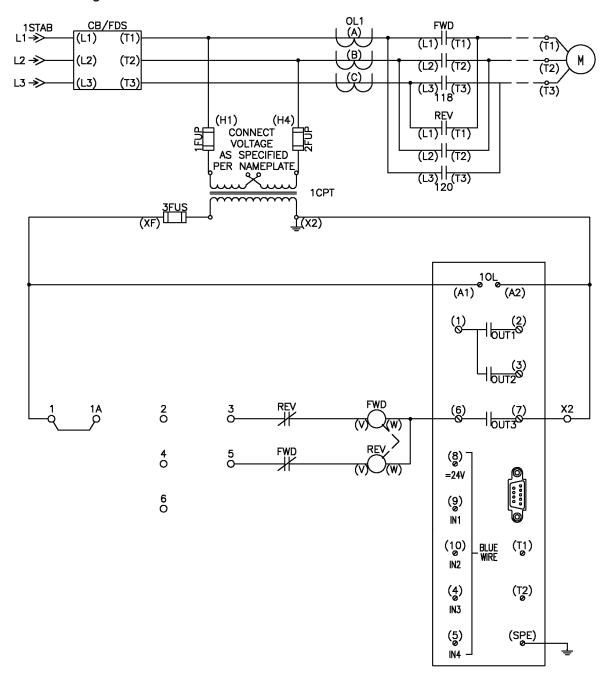
- 1. A local or remote FORWARD start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 1 closes which energizes the coil of FWD Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 1 opens which de-energizes the coil of FWD Contactor.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The basic REVERSE operation of this starter is as follows.

- 1. A local or remote REVERSE start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 2 closes which energizes the coil of REV Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 2 opens which de-energizes the coil of REV Contactor.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

PB16

OL/FVR-Fixed Operation Mode -Local Overload Operation – Remote Monitoring



PB16

OL / FVR – Fixed Operation Mode – Local Overload Operation – Remote Monitoring

Operating Instructions

Local Control

- 1. All control external to device.
- 2. In the event of an Overload or any other General Fault event the SIMOCODE Output 3 will open.

Reset Control

3. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

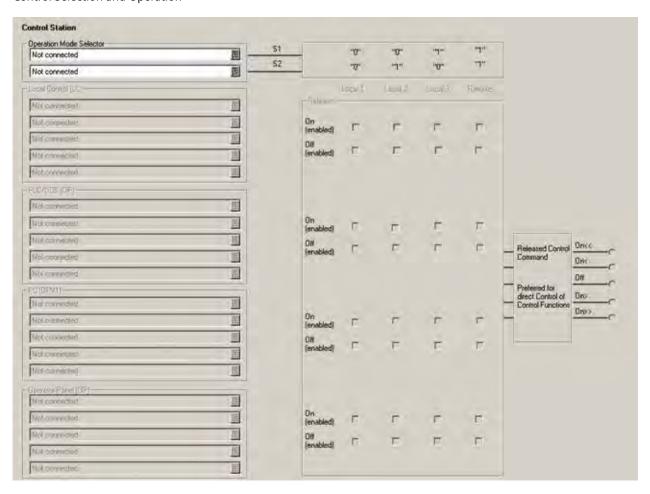
Note:

1. This setup is not recommended as its use eliminates local control of the starter via Simocode Pro as well as remote control over Profibus DP network communication.

PB16

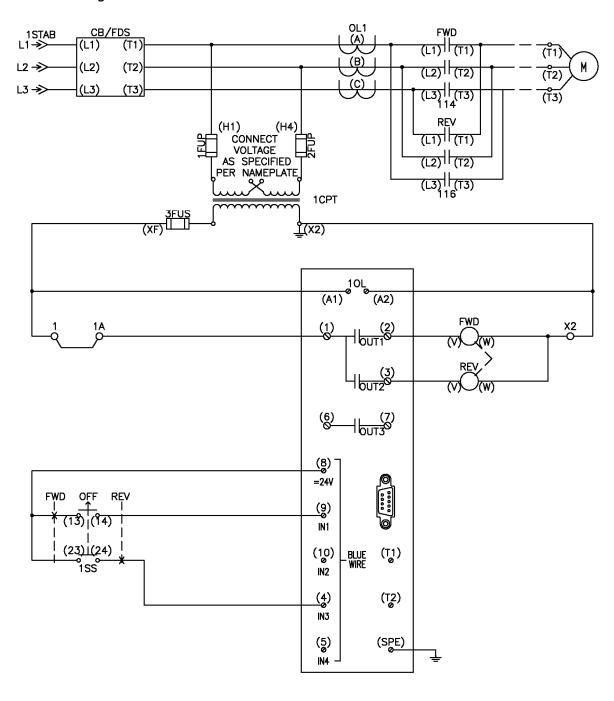
OL/FVR - Fixed Operation Mode -Local Overload Operation - Remote Monitoring

Parameter Detail



PB17

FVR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB17

FVR - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the FWD Contactor the Selector Switch is placed into the FWD position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Selector Switch is placed into the REV position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD or REV Contactor, the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/ DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault, SIMOCODE Outputs 1 and 2 will open.

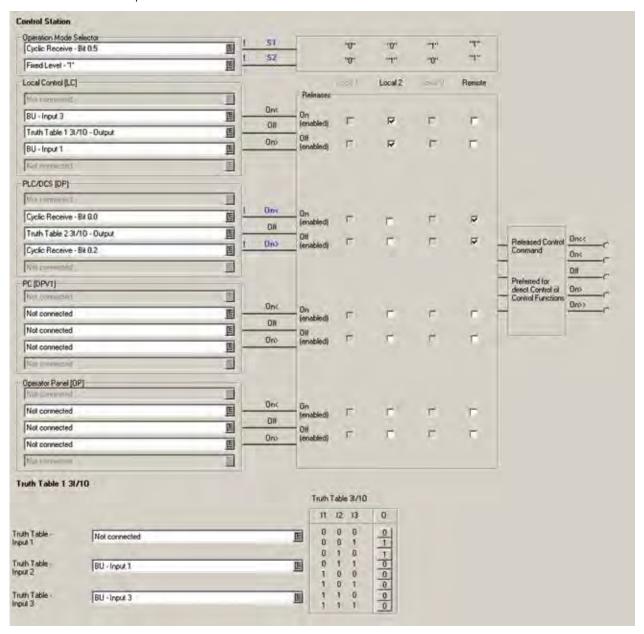
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB17

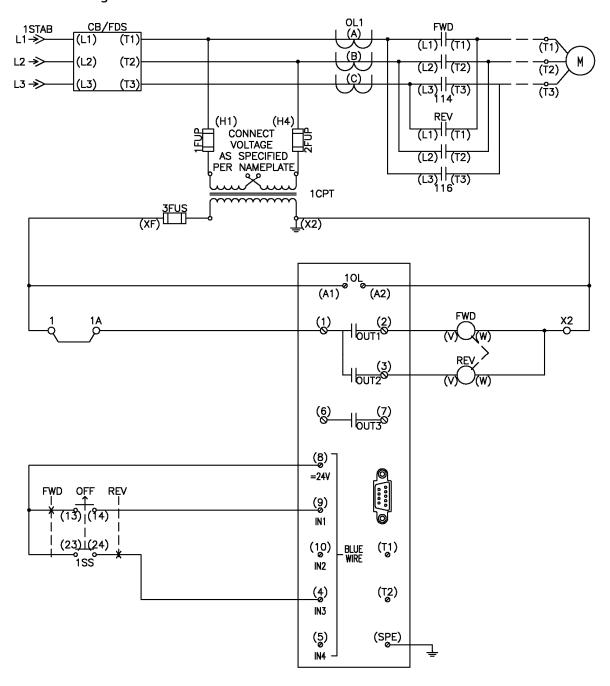
FVR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB18

FVR - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote-3 Wire



PB18

FVR – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote-3 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command
 and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth
 Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the FWD Contactor the Selector Switch is placed into the FWD position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Selector Switch is placed into the REV position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the place the Selector Switch in the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. To switch contactors issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default interlocking time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

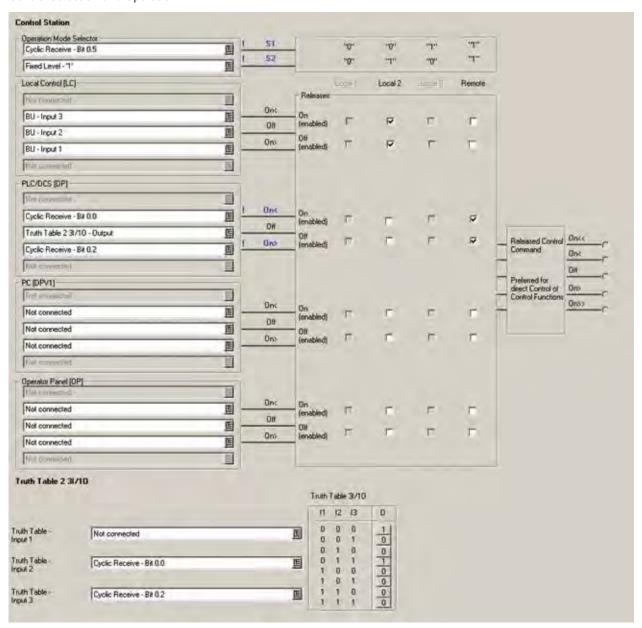
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB18

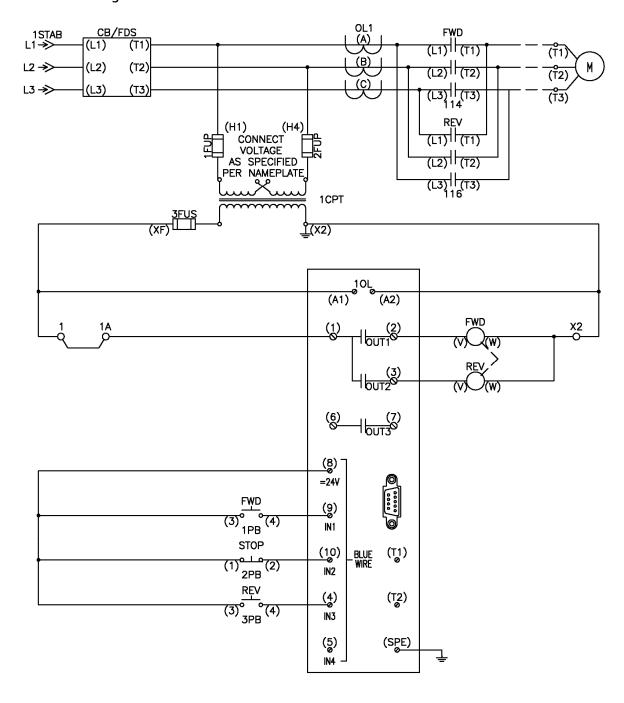
FVR - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote-3 Wire

Parameter Detail



PB19

FVR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire



PB19

FVR - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the FWD Contactor, depress the Forward Pushbutton while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor, depress the Reverse Pushbutton while the Stop Pushbutton is in its normally closed state. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor, depress the Stop Pushbutton. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is necessary to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/ DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

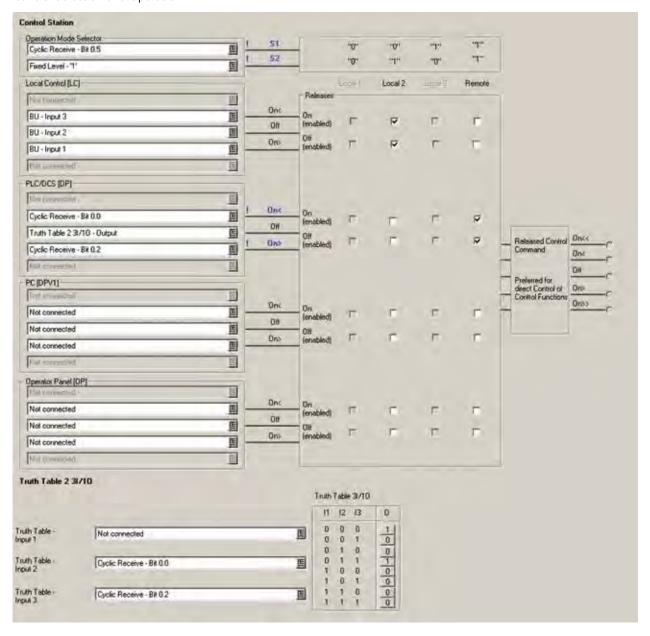
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB19

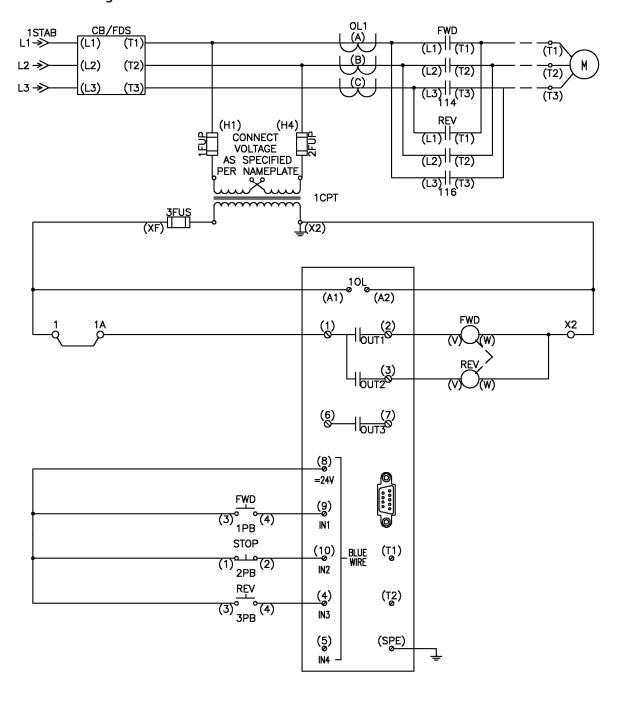
FVR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire

Parameter Detail



PB20

FVR - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 3-Wire



PB20

FVR – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the FWD Contactor, depress the Forward Pushbutton while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor, depress the Reverse Pushbutton while the Stop Pushbutton is in its normally closed state. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

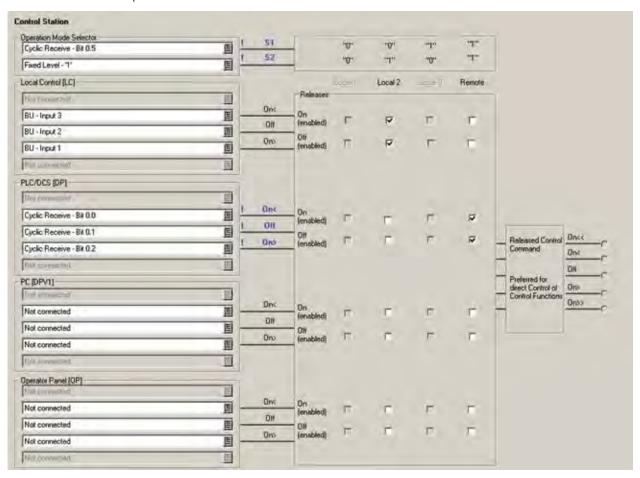
Remote Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB20

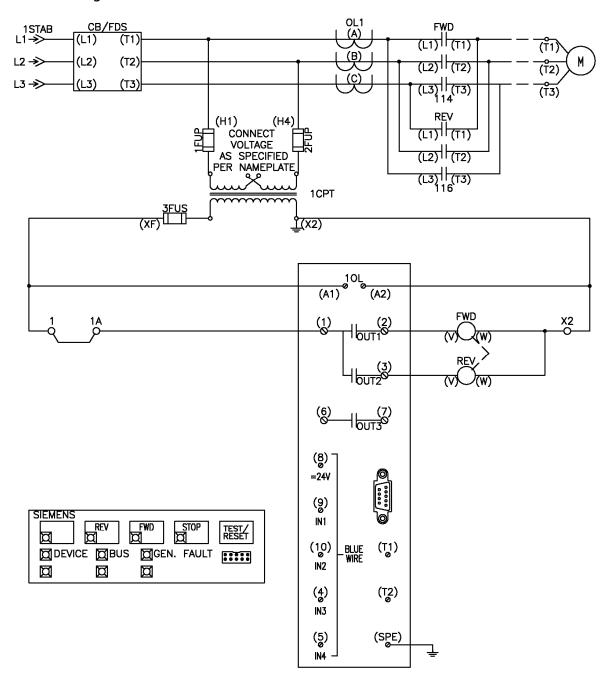
FVR - Profibus Bit Operation Mode Selection -Local 3 Wire PB - Remote 3 Wire

Parameter Detail



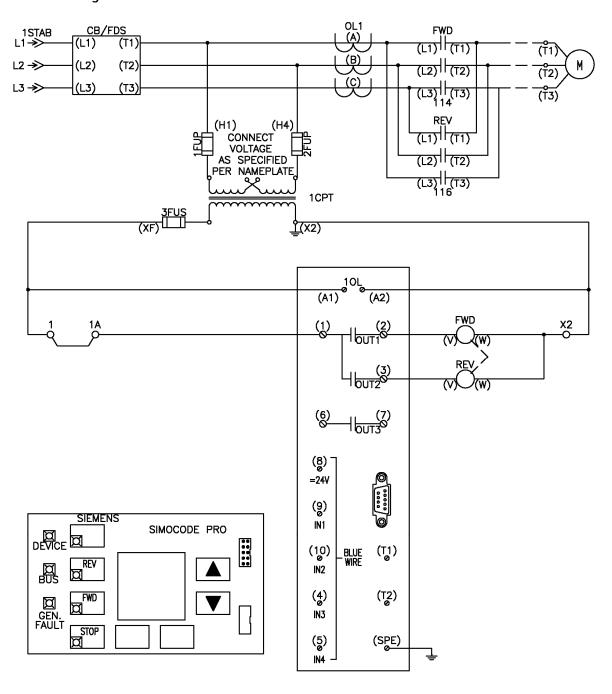
PB21

FVR – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB21

FVR - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 2-Wire



PB21

FVR - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (FWD) is connected to the ON > Control Command, Operator Panel Button 2 (REV) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the FWD Contactor the OP Forward Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the OP Reverse Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

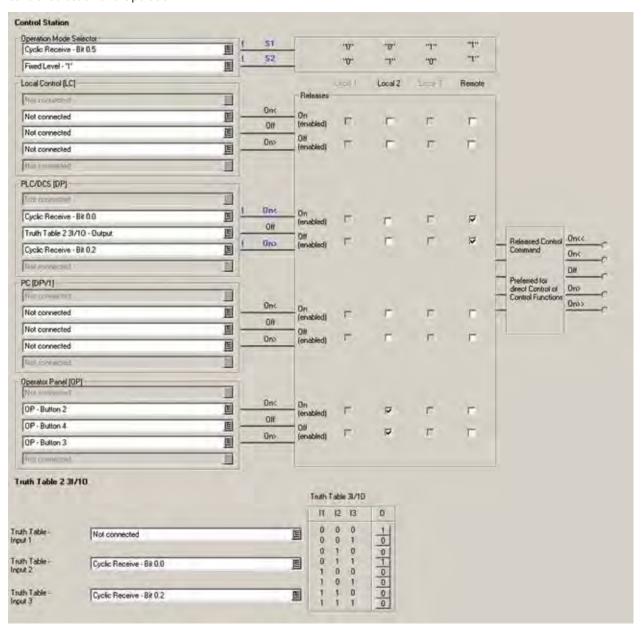
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB21

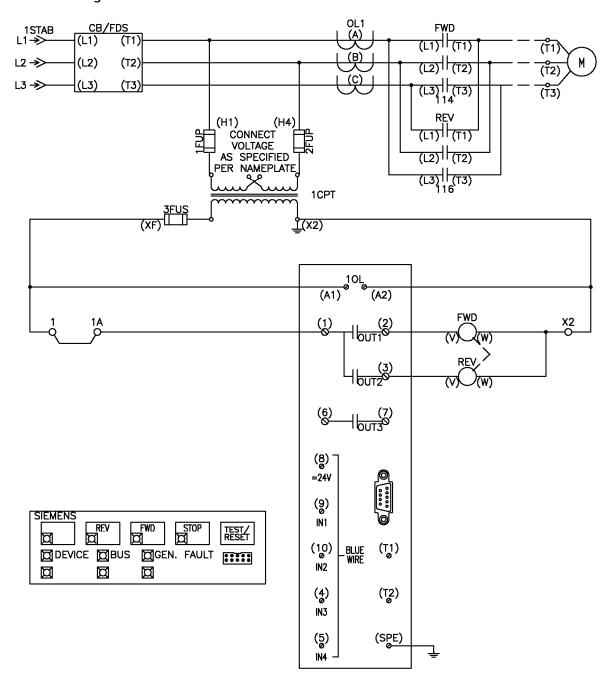
FVR - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire

Parameter Detail



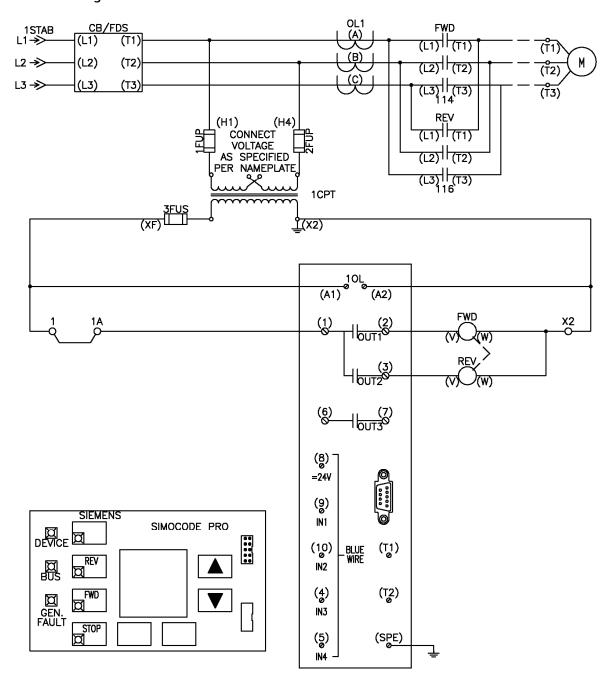
PB22

FVR – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire



PB22

FVR - Profibus Bit Operation Mode Selection -Local 3-Wire OPD – Remote 3-Wire



PB22

FVR – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (FWD) is connected to the ON > Control Command, Operator Panel Button 2 (REV) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the FWD Contactor the OP Forward Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the OP Reverse Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an overload or other general fault event, SIMOCODE outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or other General Fault event, SIMOCODE Outputs 1 and 2 will open.

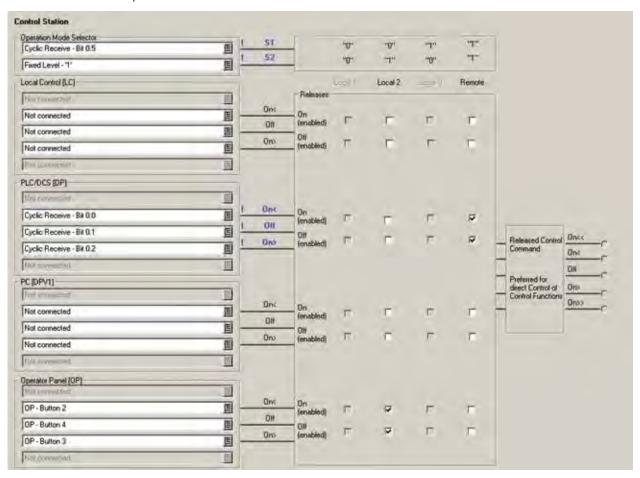
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB22

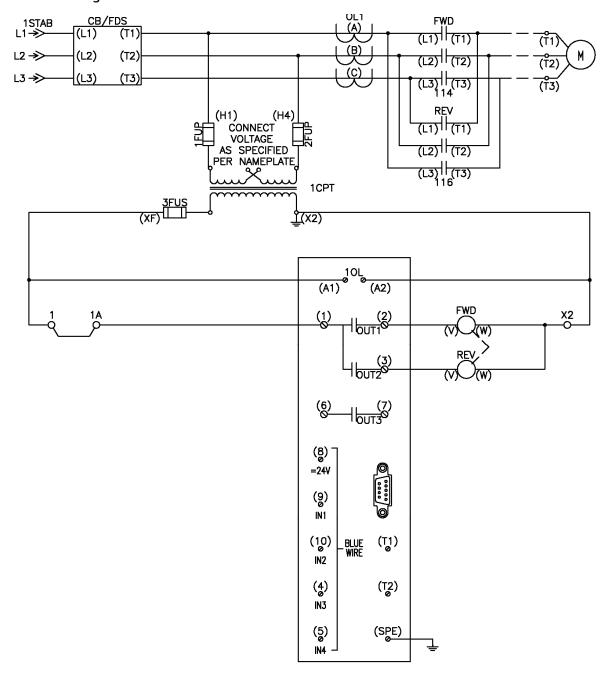
FVR - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire

Parameter Detail



PB23

FVR – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire



PB23

FVR - Profibus Bit Operation Mode Selection -No Local - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the FWD Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor SIMOCODE Input 3 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/ DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bits 0.2 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or other General Fault event, SIMOCODE Outputs 1 and 2 will open.

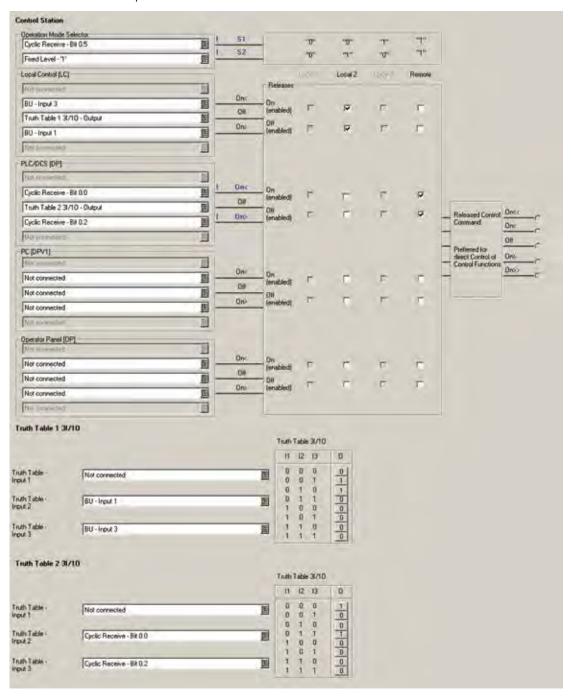
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB23

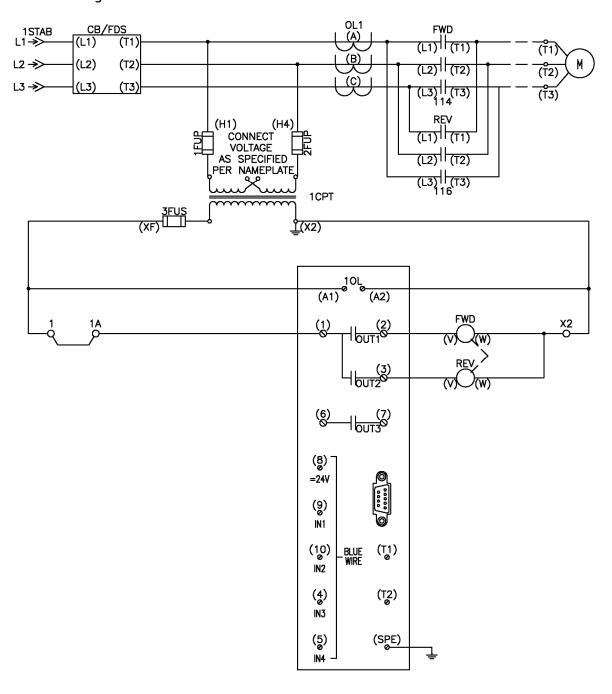
FVR – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire

Parameter Detail



PB24

FVR - Profibus Bit Operation Mode Selection -No Local - Remote 3-Wire



PB24

FVR – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

LOCAL CONTROL (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the FWD Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor SIMOCODE Input 3 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor, SIMOCODE Inputs 1 and 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

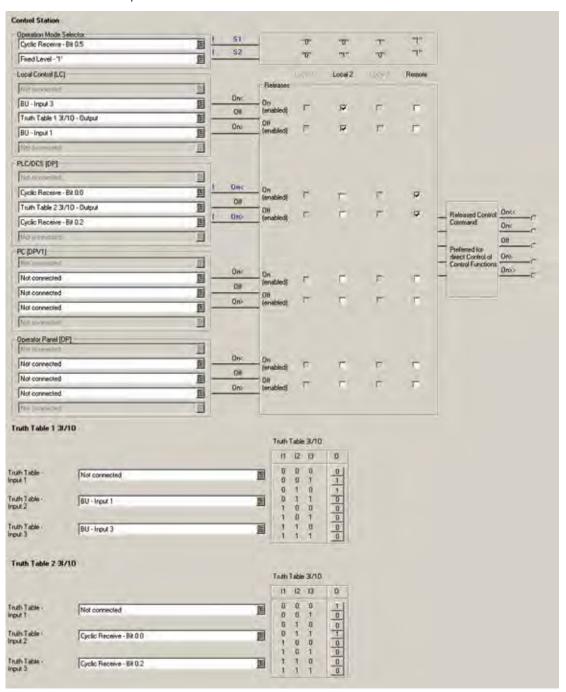
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel is so equipped.

PB24

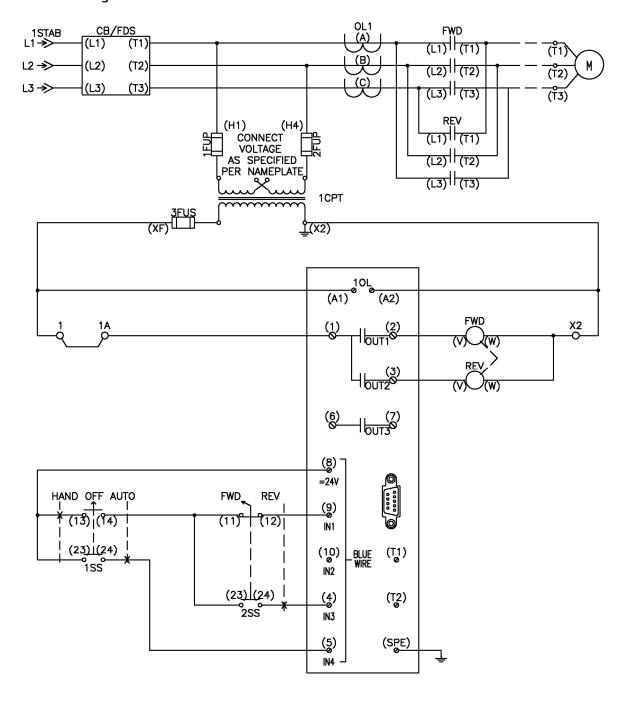
FVR - Profibus Bit Operation Mode Selection -No Local - Remote 3-Wire

Parameter Detail



PB25

FVR – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB25

FVR – Selector Switch Operation Mode Selection – Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode, SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the FWD Contactor the Selector Switch is placed into the FWD position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Selector Switch is placed into the REV position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/ DCS (DP). Profibus Cyclic Receive Bits 0.2 and 0.0 are connected to Truth Table 2.
- 2. To engage the FWD Contactor, the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD or REV Contactor, the Profibus Cyclic Receive Bits 0.2 and 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

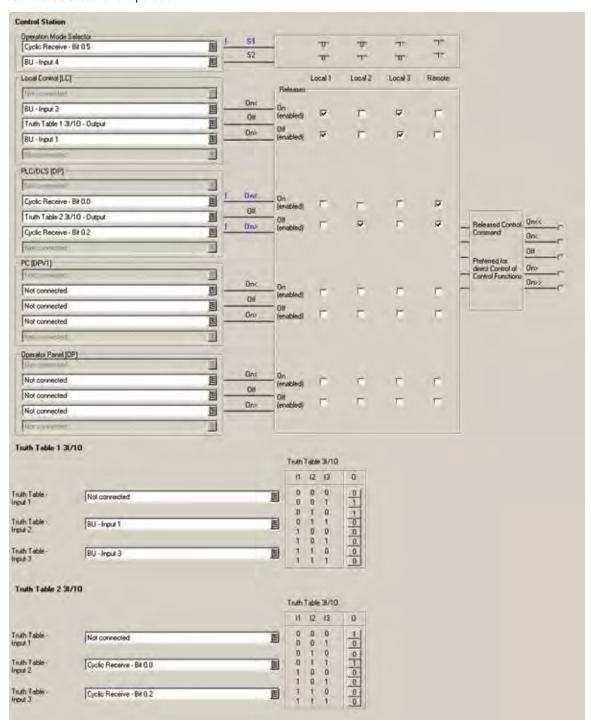
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB25

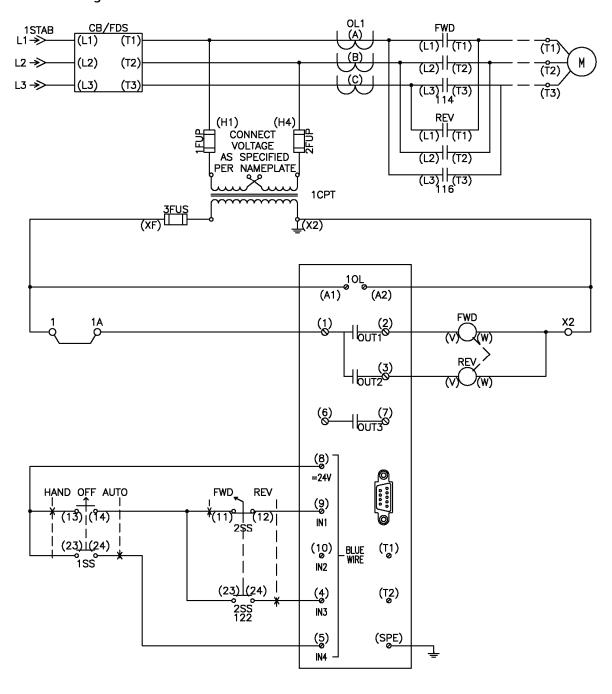
FVR – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB26

FVR - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire



PB26

FVR – Selector Switch Operation Mode Selection – Local 2-Wire SS - Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the FWD Contactor the Selector Switch is placed into the FWD position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Selector Switch is placed into the REV position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

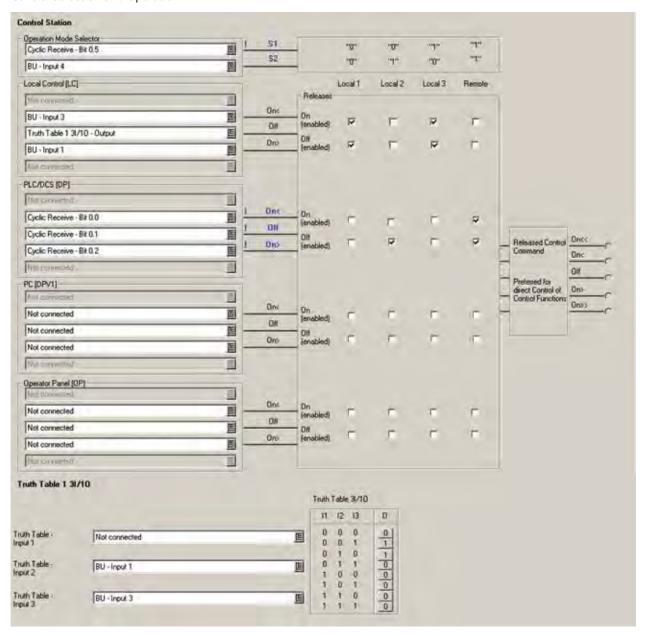
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped..

PB26

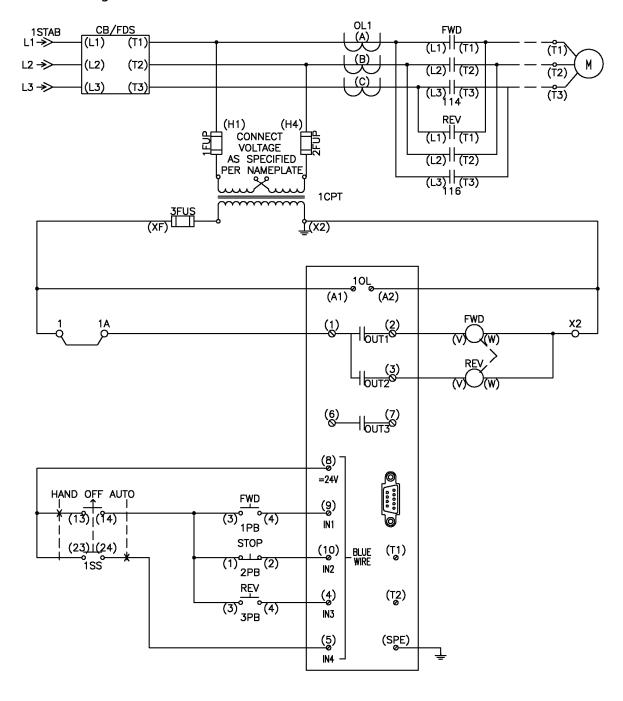
FVR - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire

Parameter Detail



PB27

FVR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire



PB27

FVR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the FWD Contactor, depress the Forward Pushbutton while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor, depress the Reverse Pushbutton while the Stop Pushbutton is in its normally closed state. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

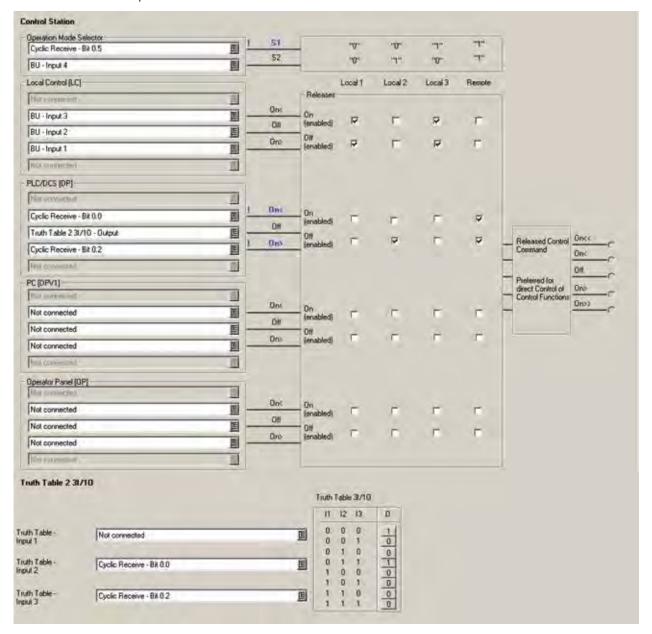
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB27

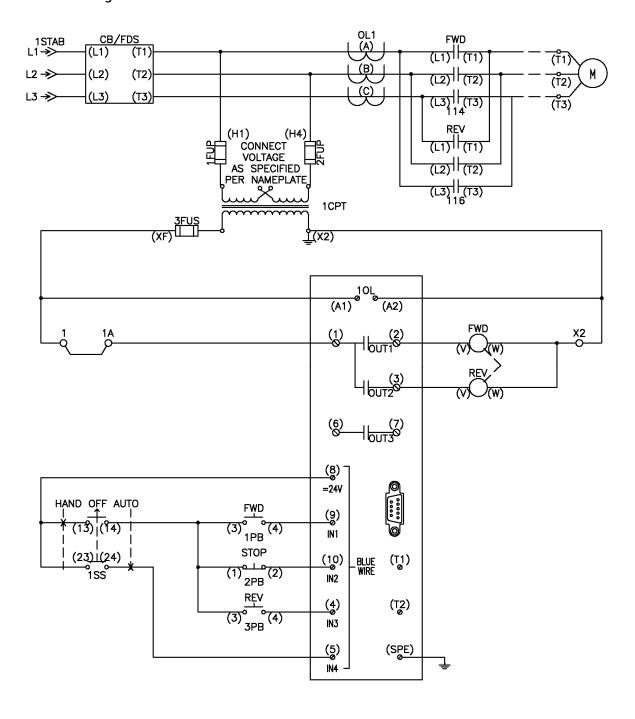
FVR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Parameter Detail



PB28

FVR - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 3-Wire



PB28

FVR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the FWD Contactor the Forward pushbutton is depressed while the Stop pushbutton is in its normal closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Reverse pushbutton is depressed while the Stop pushbutton is in its normal closed state. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

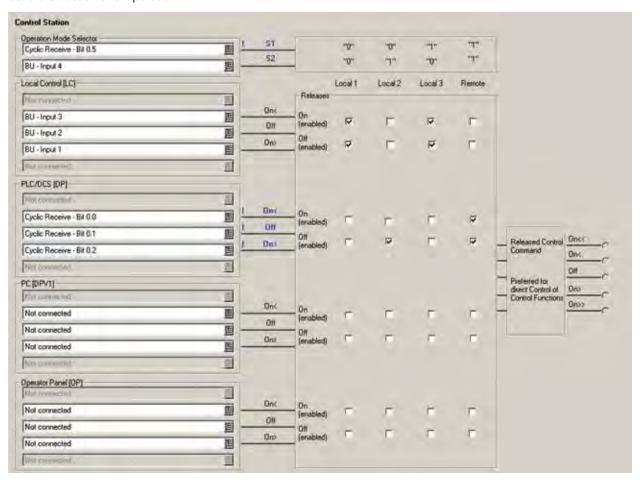
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB28

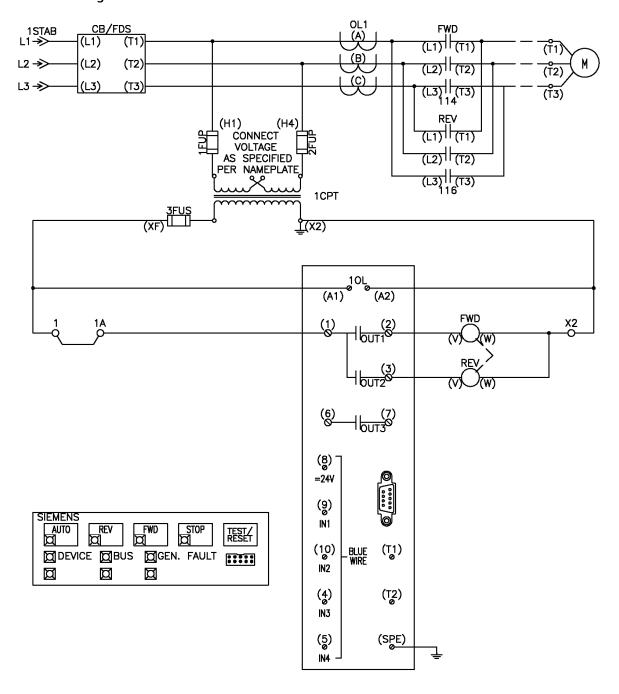
FVR – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire

Parameter Detail



PB29

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB29

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP(OPD) - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active, indication is provided via the LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (FWD) is connected to the ON > Control Command, Operator Panel Button 2 (REV) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the FWD Contactor the OP Forward Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the OP Reverse Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

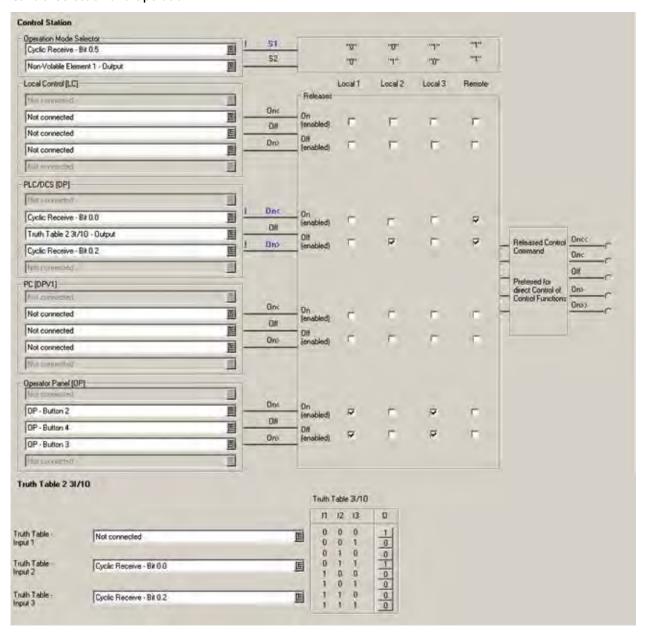
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bits 0.2 and 0.0 are connected to Truth Table 2.
- 2. To engage the FWD Contactor, Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor, Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD or REV Contactor Profibus Cyclic Receive Bits 0.2 and 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB29

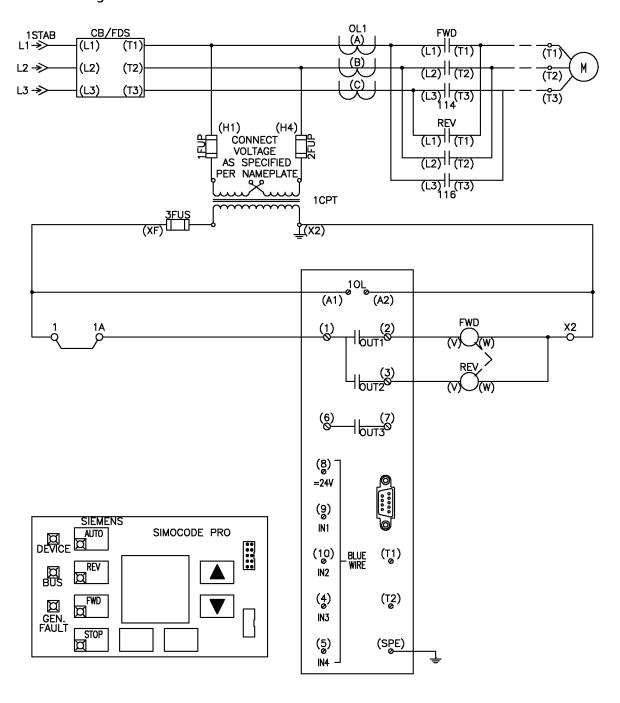
FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP(OPD) – Remote 2- Wire

Parameter Detail



PB29

FVR - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 2-Wire

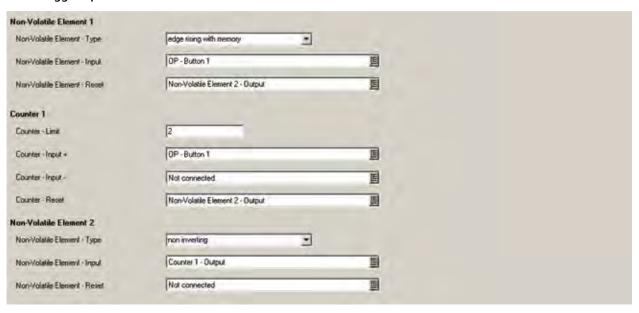


PB29

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP(OPD) – Remote 2-Wire

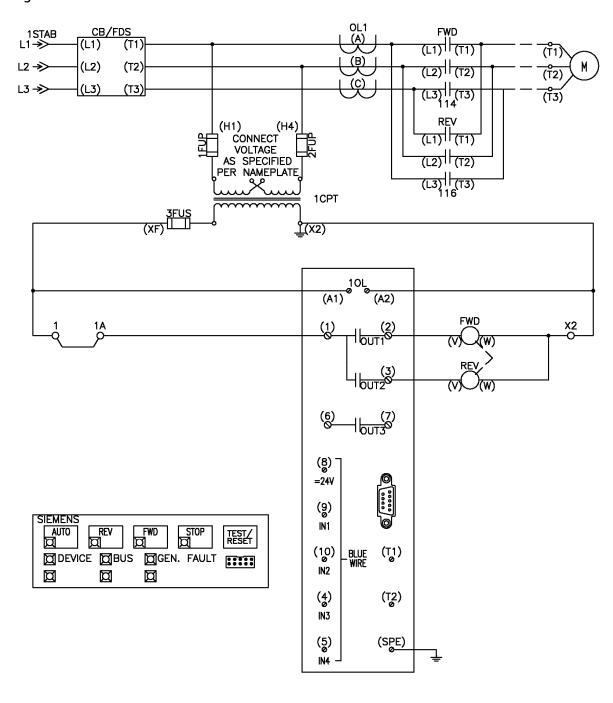
Parameter Detail

AUTO Toggle Operation



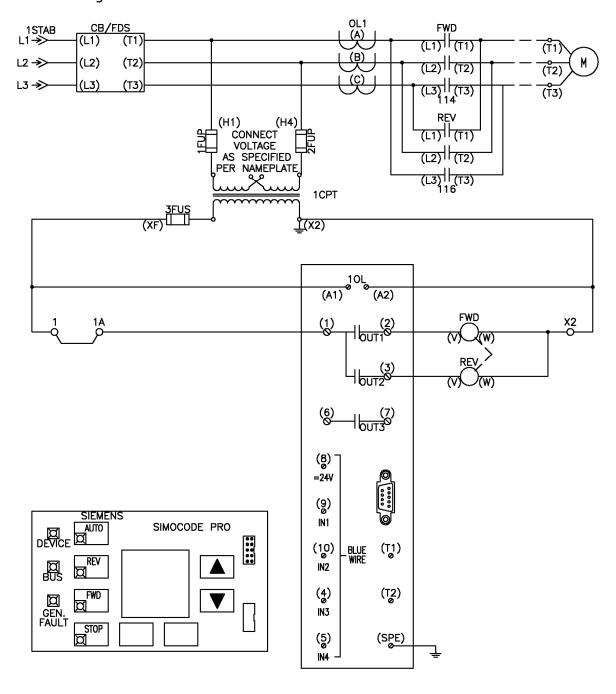
PB30

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire



PB30

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire



PB30

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP(OPD) - Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button.

Local Control

- 1. Operator Panel Button 3 (FWD) is connected to the ON > Control Command, Operator Panel Button 2 (REV) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the FWD Contactor the OP Forward Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the OP Reverse Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode
- 2. To engage the FWD Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 3. To engage the REV Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 4. To disengage the FWD Contactor or the REV Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite direction. The default Interlocking Time for changing direction is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

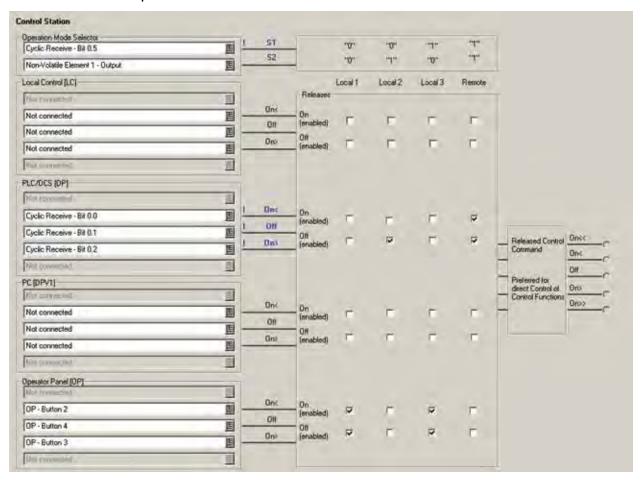
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB30

FVR – Operator Panel Operation Mode Selection – Local 3-Wire OP(OPD) – Remote 3-Wire

Parameter Detail

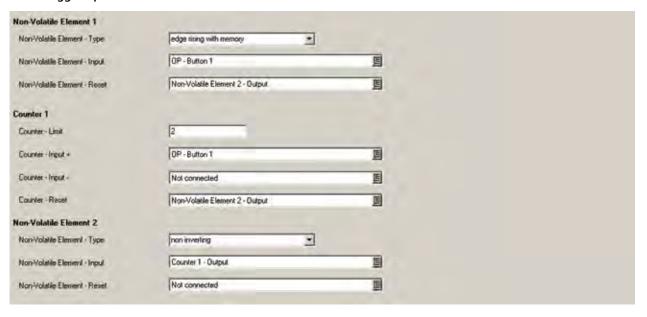


PB30

FVR - Operator Panel Operation Mode Selection -Local 3-Wire OP(OPD) - Remote 3-Wire

Parameter Detail

AUTO Toggle Operation



6. Two speed one winding

The two-speed one-winding starter uses the SLOW contactor to select low-speed and the FAST & SHORT contactors to select high-speed for dual-speed, single-direction, full-voltage operation. The SLOW and SHORT contactors are mechanically and intelligently interlocked to prevent short circuiting of the input lines.

The basic SLOW operation of this starter is as follows.

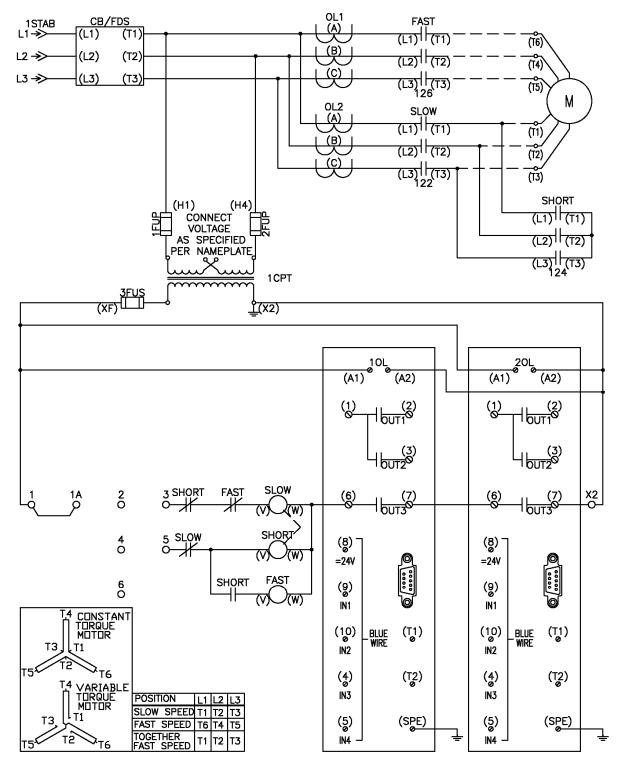
- 1. A local or remote SLOW start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 2 closes which energizes the coil of SLOW Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 2 opens which de-energizes the coil of SLOW Contactor.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The basic FAST operation of this starter is as follows.

- 1. A local or remote FAST start signal is given to the SIMOCODE Pro.
- The SIMOCODE Pro Output 1 and SIMOCODE Pro Output 3 close which energizes the coils of the FAST Contactor and SHORT Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 1 and SIMOCODE Pro Output 3 open which de-energizes the coils of the FAST Contactor and SHORT Contactor.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

PB31

OL / 2S1W – Fixed Operation Mode – Local Overload Operation – Remote Monitoring



PB31

OL / 2S1W – Fixed Operation Mode – Local Overload Operation – Remote Monitoring

Operating Instructions

Local Control

- 1. All control external to device.
- 2. In the event of an Overload or any other General Fault event the SIMOCODE Output 3 will open.

Reset Control

3. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

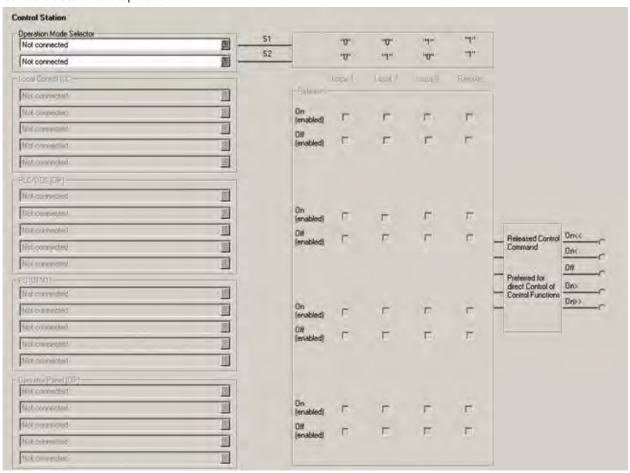
NOTE:

- 1. This setup is not recommended as its use eliminates local control of the starter via Simocode Pro as well as remote control over Profibus DP network communication.
- 2. Two Simocode Pro devices are required to utilize a 2S1W starter in this fashion.

PB31

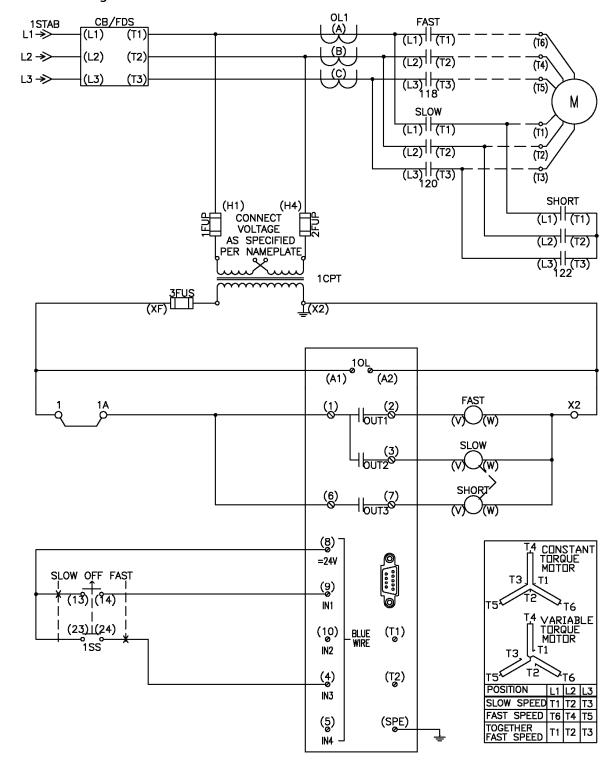
OL / FVNR - Fixed Operation Mode -Local Overload Operation – Remote Monitoring

Parameter Detail



PB32

2S1W – Profibus Bit Operation Mode Selection – Local 2-Wire SS– Remote 2-Wire



PB32

2S1W - Profibus Bit Operation Mode Selection -Local 2-Wire SS-Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Outputs 1 and 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

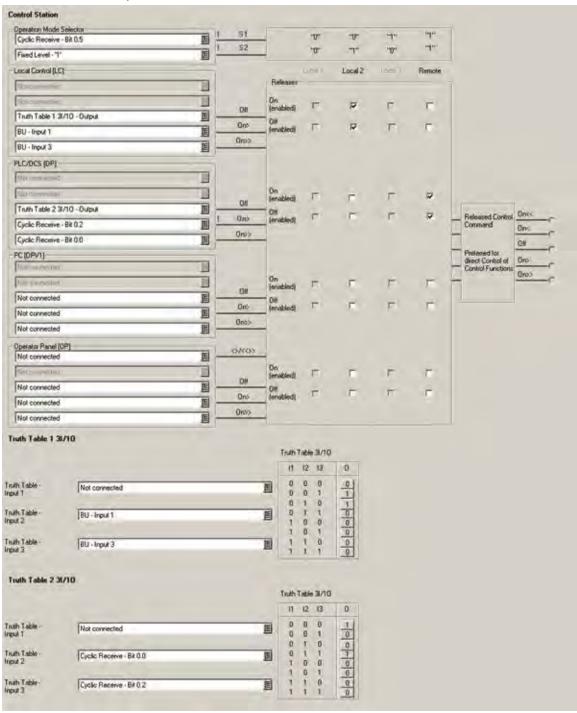
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB32

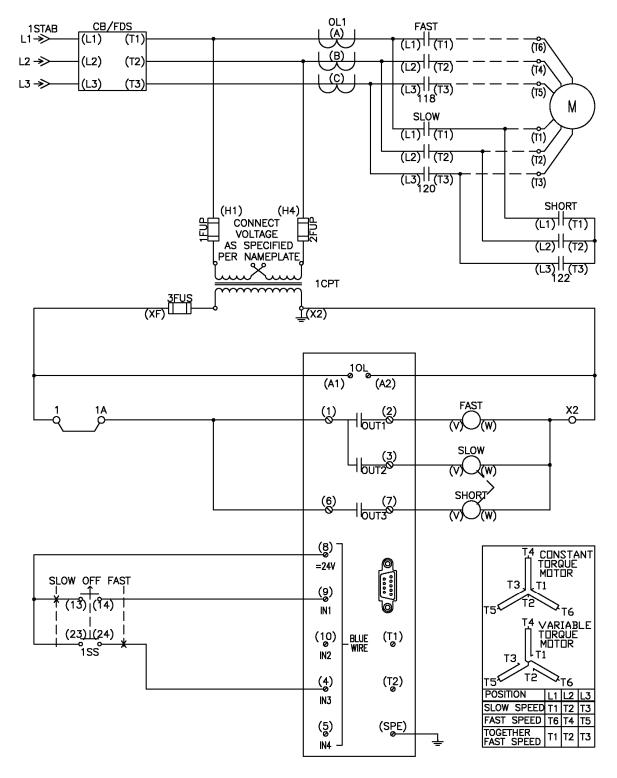
2S1W – Profibus Bit Operation Mode Selection – Local 2-Wire SS– Remote 2-Wire

Parameter Detail



PB33

2S1W - Profibus Bit Operation Mode Selection -Local 2-Wire SS- Remote 3-Wire



PB33

2S1W – Profibus Bit Operation Mode Selection – Local 2 Wire SS– Remote 3 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control
 Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC).
 Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

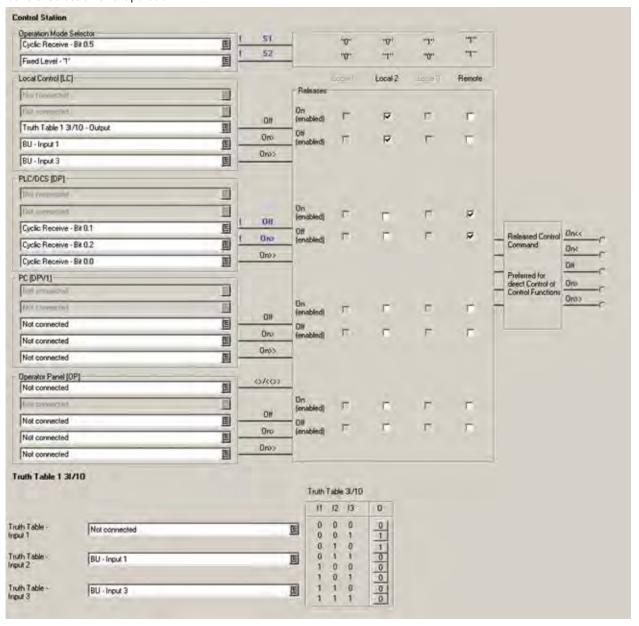
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB33

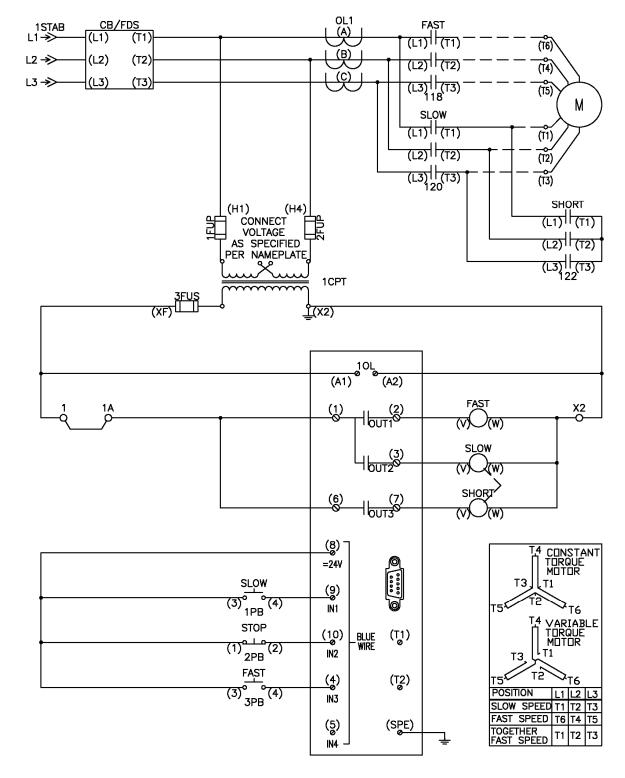
2S1W - Profibus Bit Operation Mode Selection -Local 2-Wire SS-Remote 3-Wire

Parameter Detail



PB34

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire PB– Remote 2-Wire



PB34

2S1W – Profibus Bit Operation Mode Selection – Local 3 Wire PB– Remote 2 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor, the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 | to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing the SIMOCODE Outputs 1 and 3 to close.
- 4. To disengage the SLOW Contactor, or the FAST & SHORT Contactors, Profibus Cyclic Receive Bits 0.2 and 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

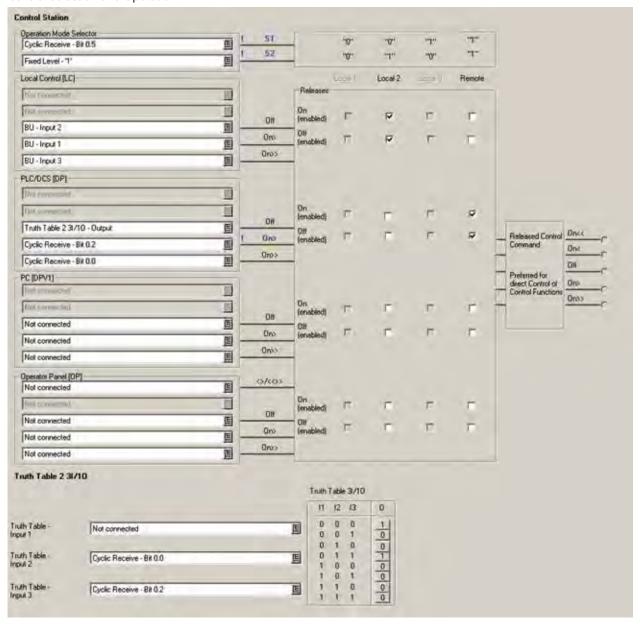
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB34

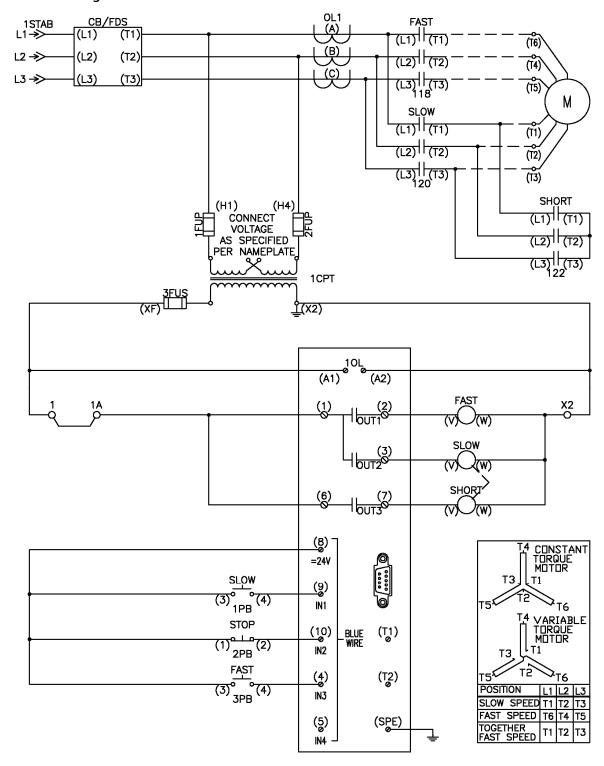
2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire

Parameter Detail



PB35

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire PB- Remote 3-Wire



PB35

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire PB– Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode. Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

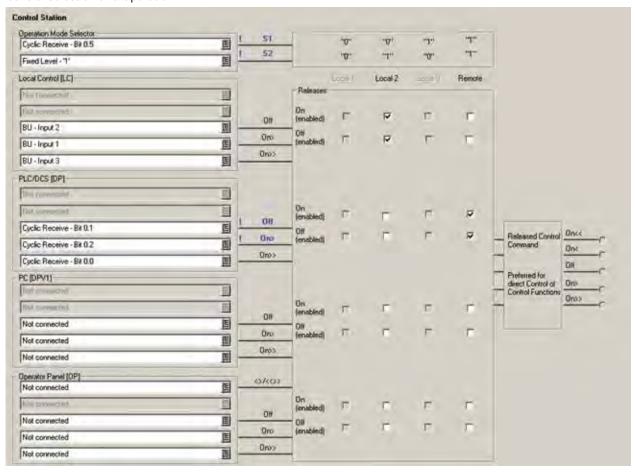
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB35

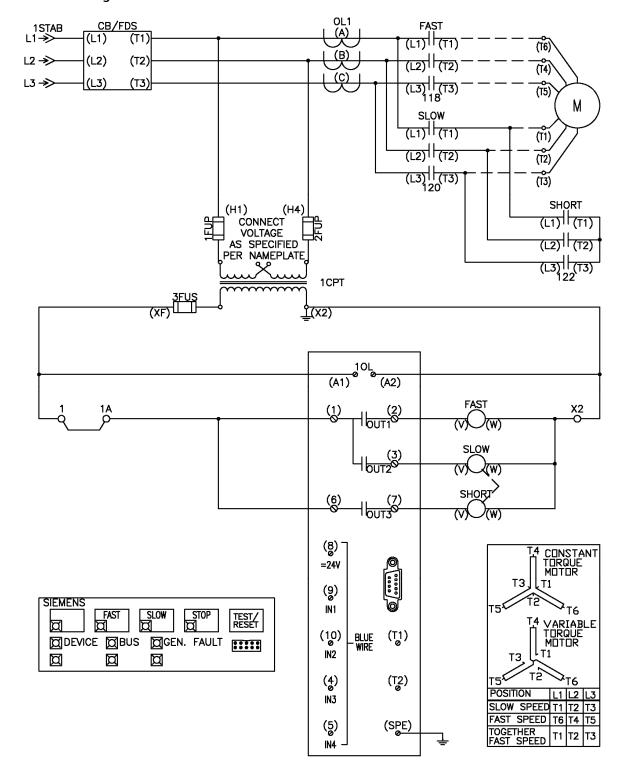
2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire PB- Remote 3-Wire

Parameter Detail



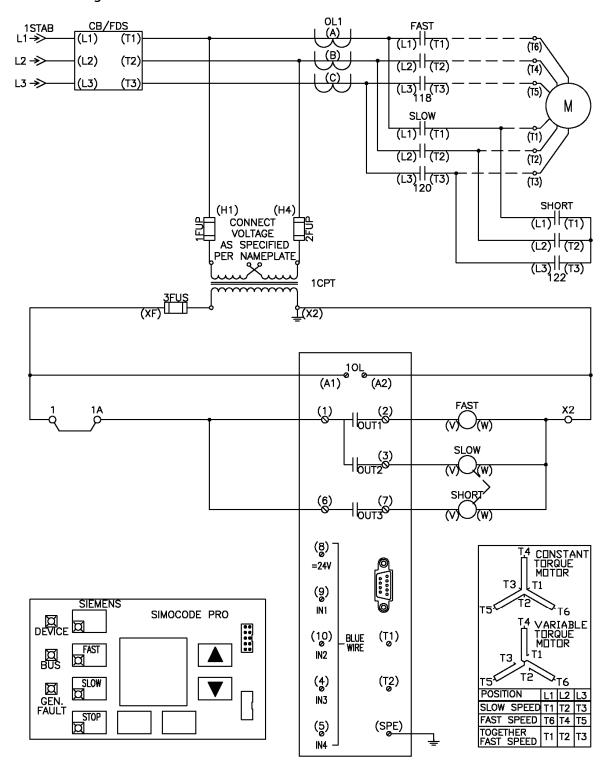
PB36

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB36

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 2-Wire



PB36

2S1W – Profibus Bit Operation Mode Selection – Local 3 Wire OP(OPD) – Remote 2 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

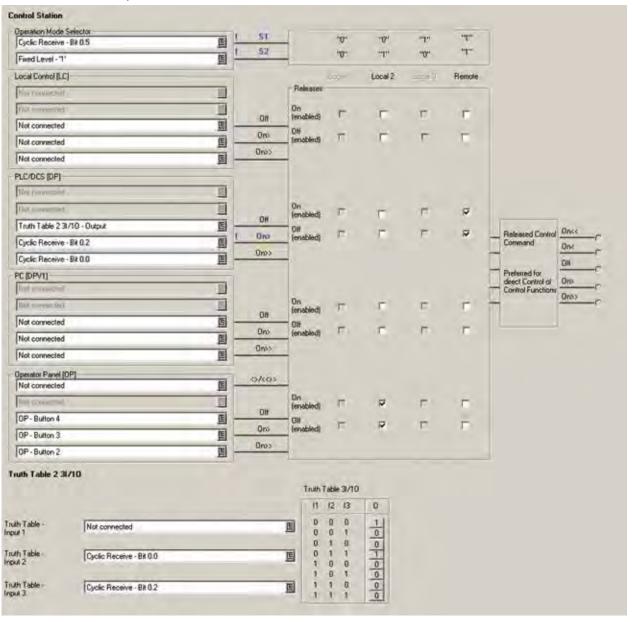
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB36

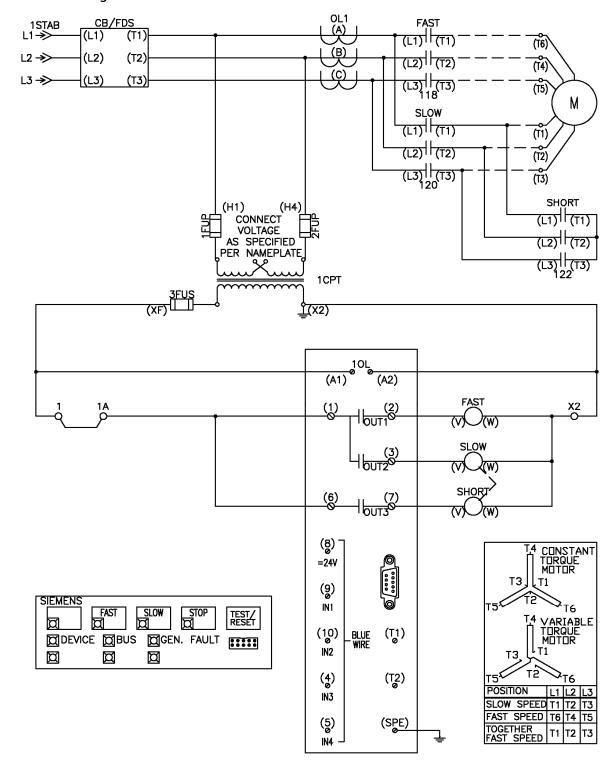
2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP(OPD) – Remote 2-Wire

Parameter Detail



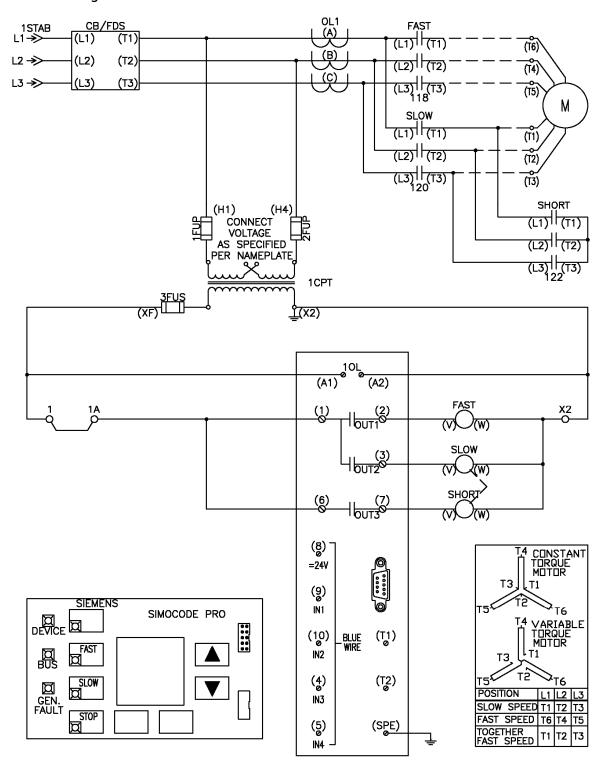
PB37

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire



PB37

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 3-Wire



PB37

2S1W – Profibus Bit Operation Mode Selection – Local 3 Wire OP(OPD) – Remote 2 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

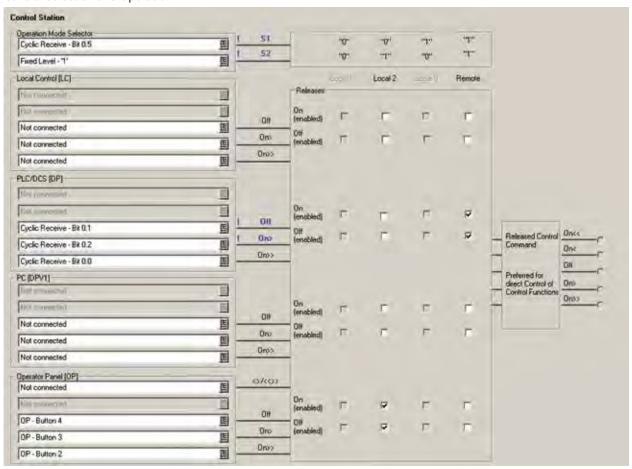
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB37

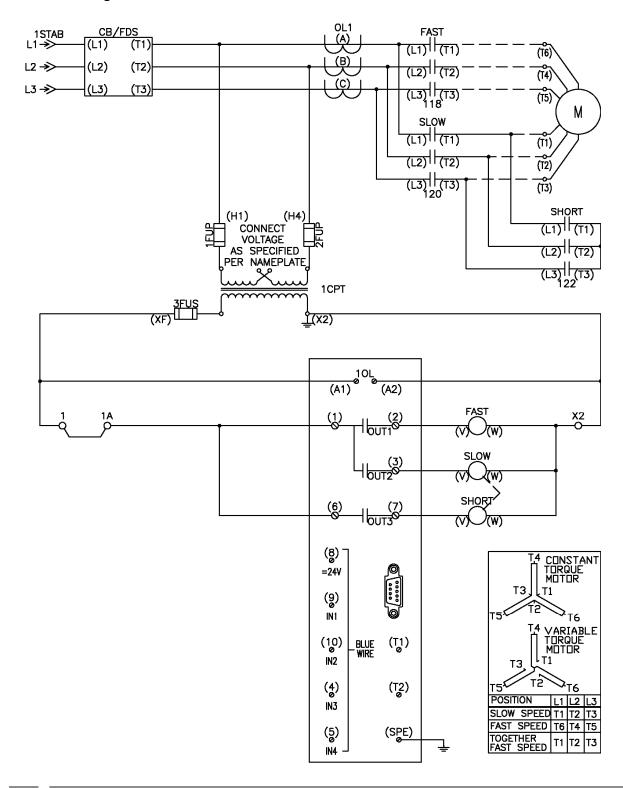
2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OP(OPD) - Remote 3-Wire

Parameter Detail



PB38

2S1W – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire



PB38

2S1W - Profibus Bit Operation Mode Selection -No Local - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local **Control** (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors SIMOCODE Input 3 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

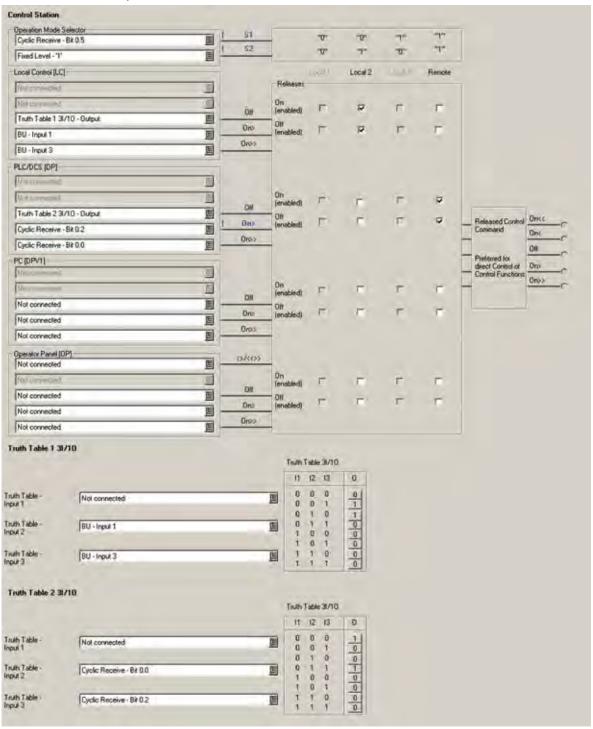
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB38

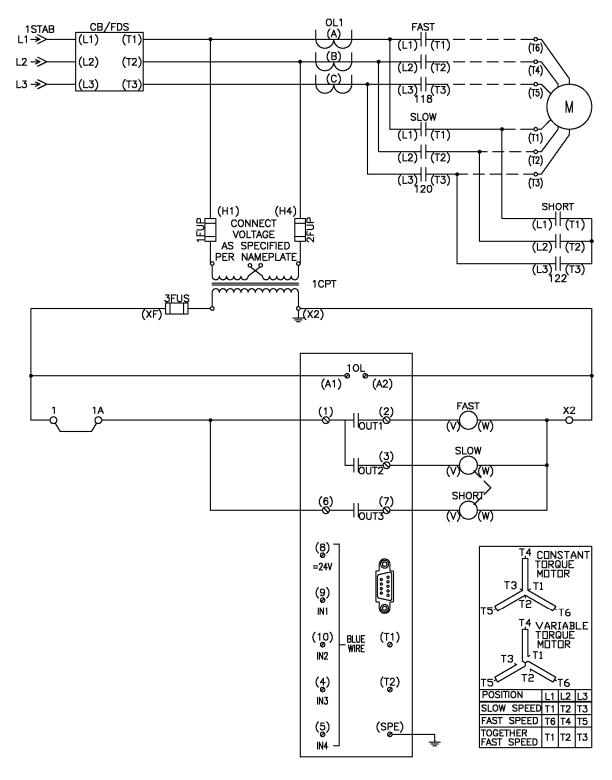
2S1W – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire

Parameter Detail



PB39

2S1W - Profibus Bit Operation Mode Selection -No Local - Remote 3-Wire



PB39

2S1W – Profibus Bit Operation Mode Selection – No Local – Remote 3 Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local **Control** (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors SIMOCODE Input 3 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

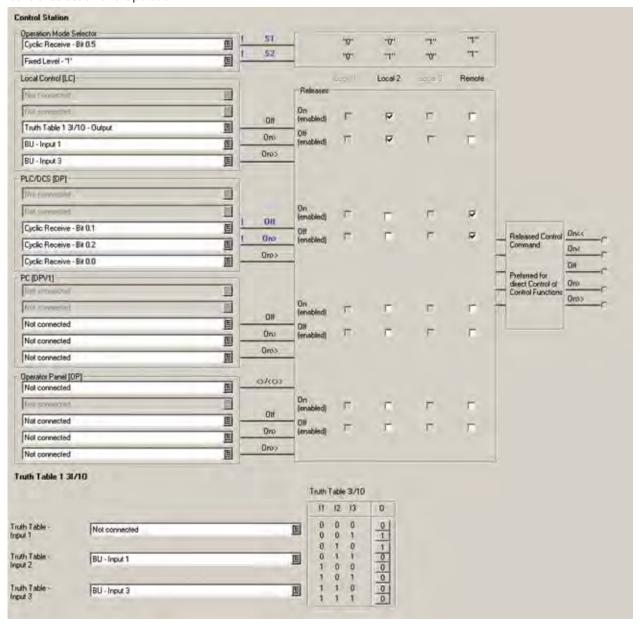
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB39

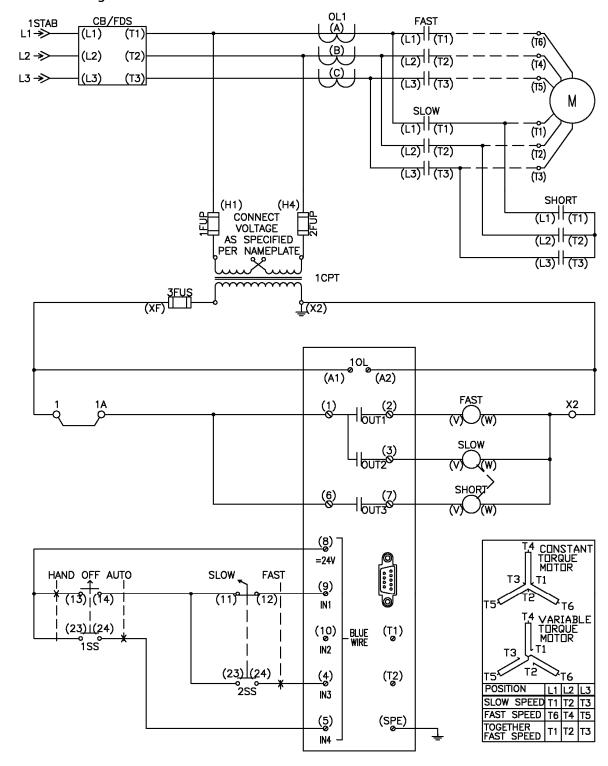
2S1W - Profibus Bit Operation Mode Selection -No Local - Remote 3-Wire

Parameter Detail



PB40

2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB40

2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 2 and 3 to open.
- 5. When switching contactors, you must issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

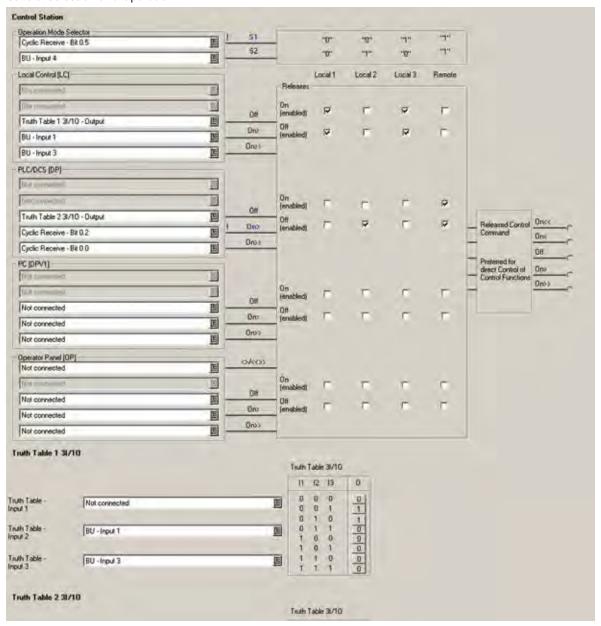
Reset Control

General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus
Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if
so equipped.

PB40

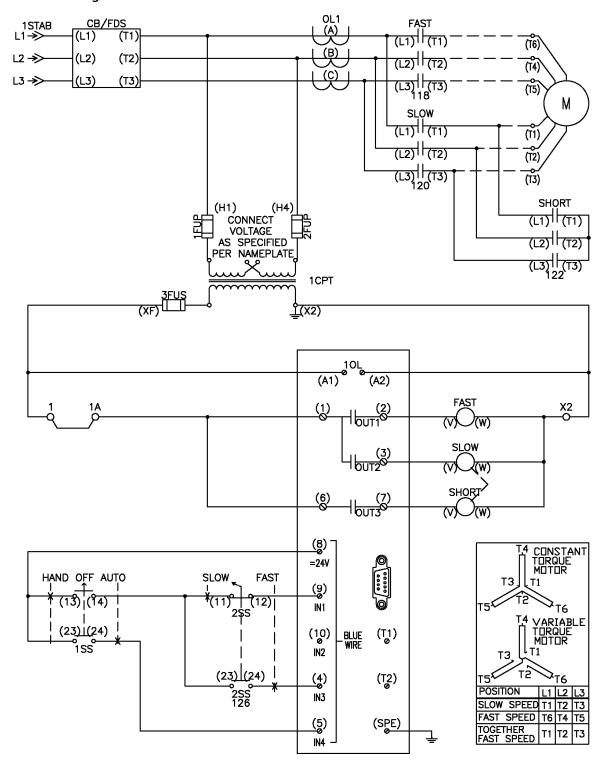
2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB41

2S1W - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire



PB41

2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Operating Instructions

Control Selection

- 2. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 3. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 4. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 5. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is the triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

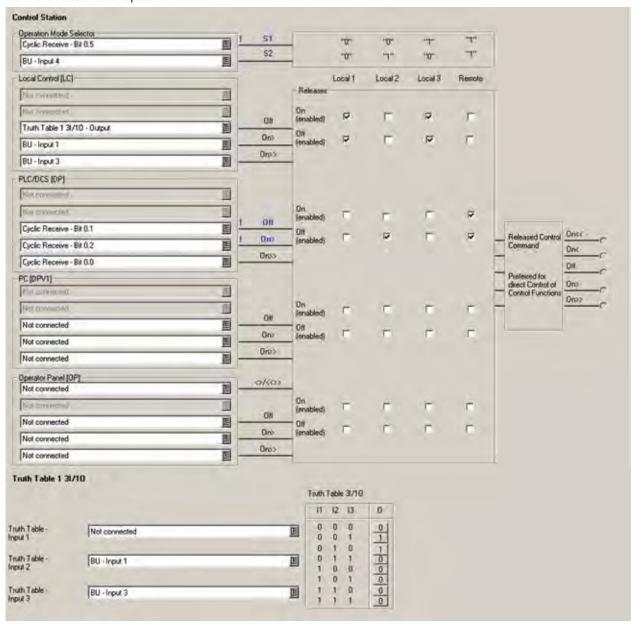
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB41

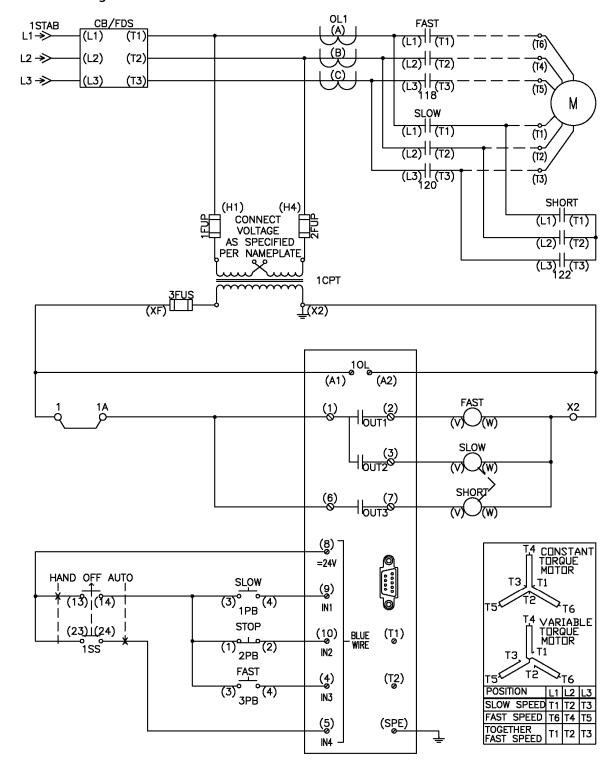
2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Parameter Detail



PB42

2S1W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire



PB42

2S1W - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normal closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

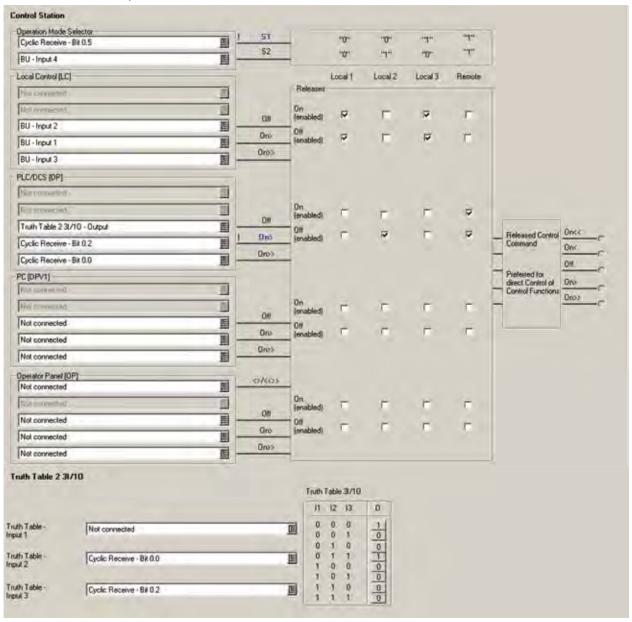
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel, if so equipped.

PB42

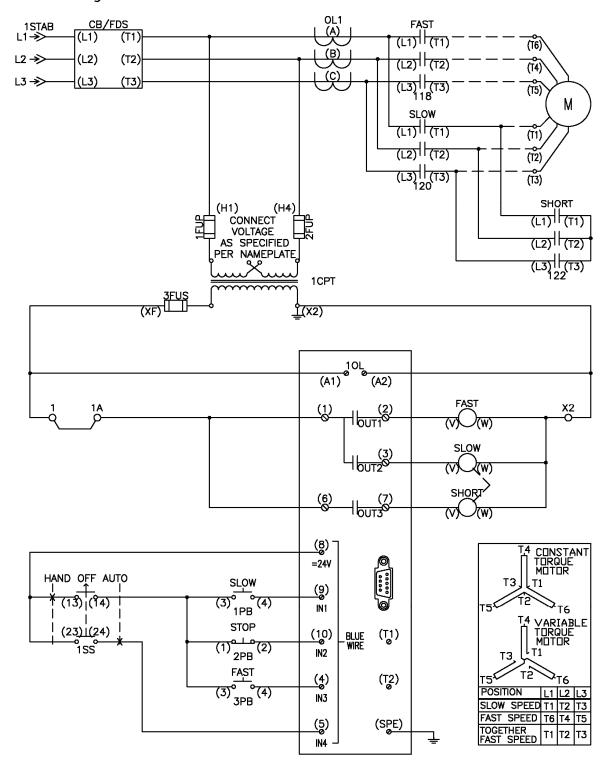
2S1W – Selector Switch Operation Mode Selection – Local 2-Wire SS/PB – Remote 2-Wire

Parameter Detail



PB43

2S1W - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 2-Wire



PB43

2S1W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Operating Instructions

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor, the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

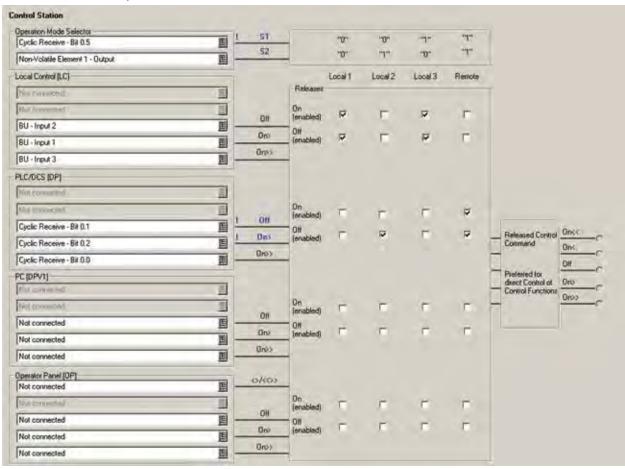
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB43

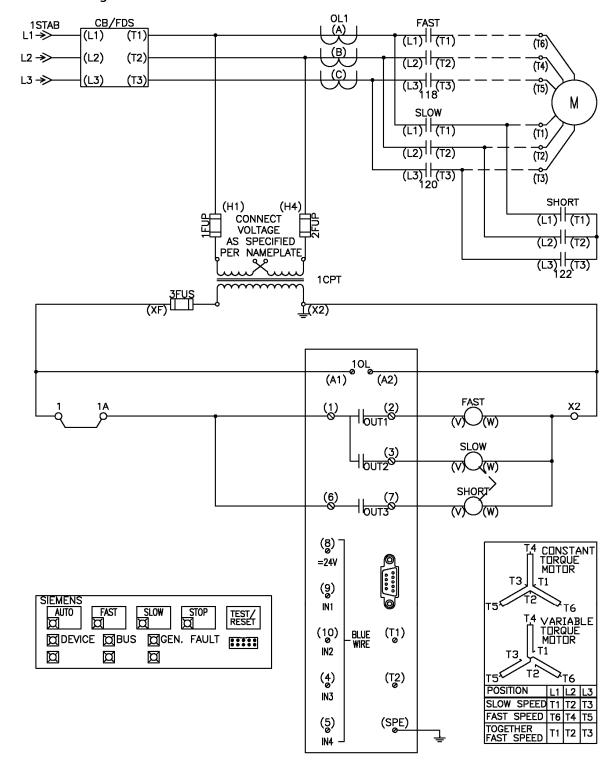
2S1W - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 2-Wire

Parameter Detail



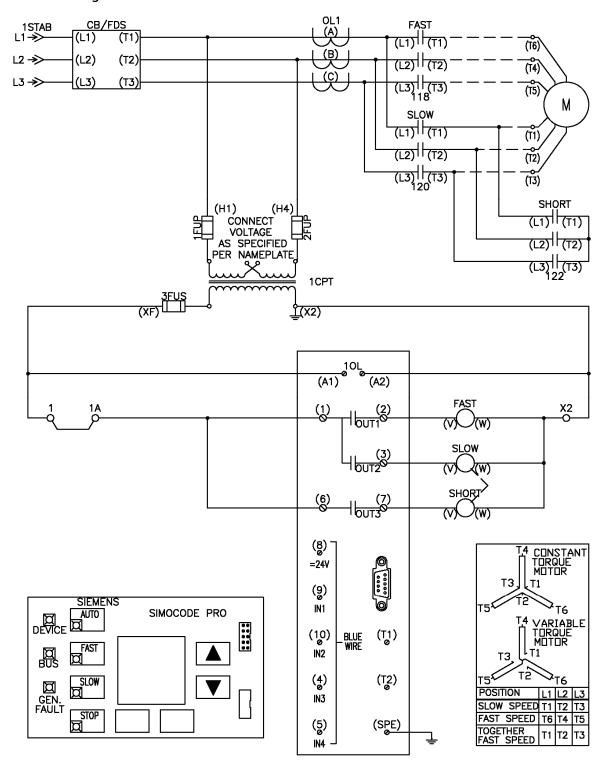
PB44

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OP - Remote 2-Wire



PB44

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OPD - Remote 2-Wire



PB44

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When remote operation mode is active, indication is provided via the LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

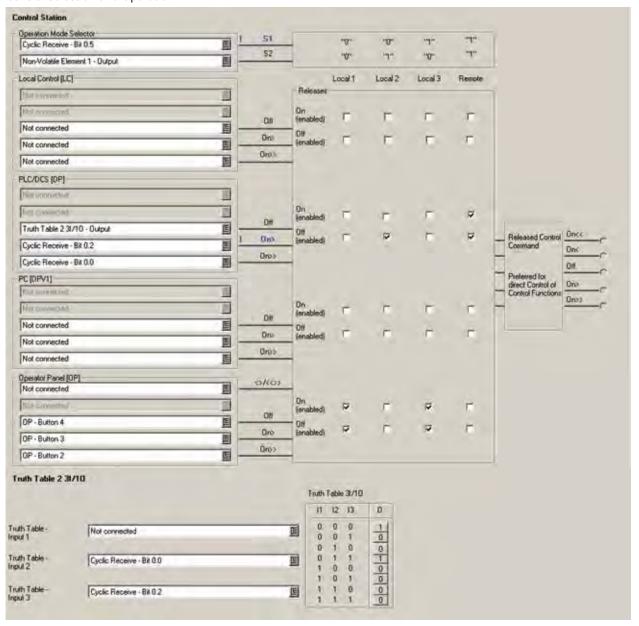
Reset Control

1. General Fault conditions is reset using the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB44

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Parameter Detail



PB44

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

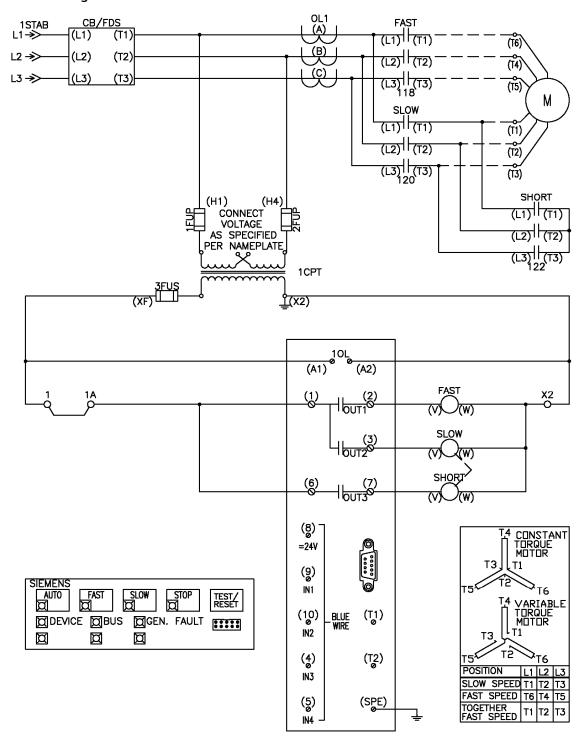
Parameter Detail

AUTO Toggle Operation



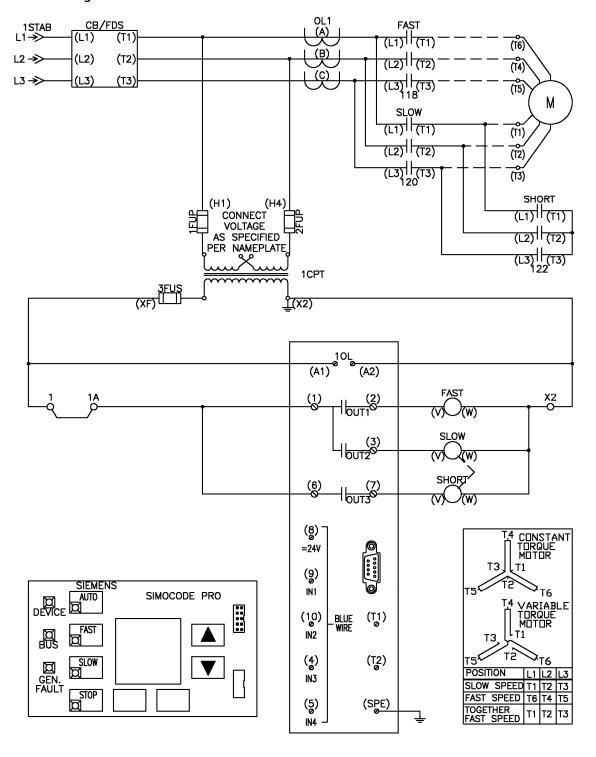
PB45

2S1W - Profibus Bit Operation Mode Selection -Local 3-Wire OP - Remote 3-Wire



PB45

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire



PB45

2S1W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Operating Instructions

Control Selection

- 1.Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 and SIMOCODE Output 3 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1, 2 and 3 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1, 2 and 3 will open.

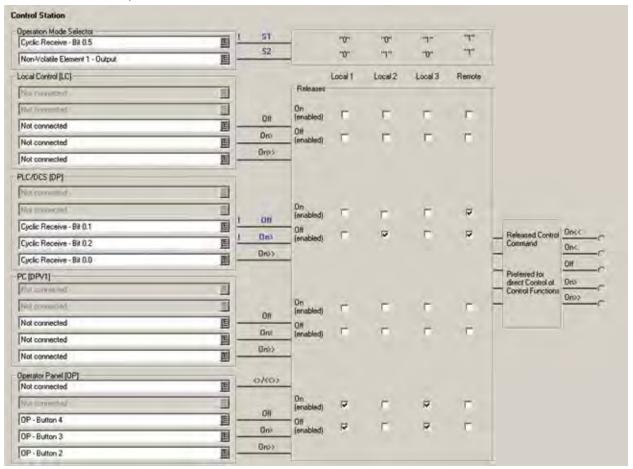
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB45

2S1W – Selector Switch Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail

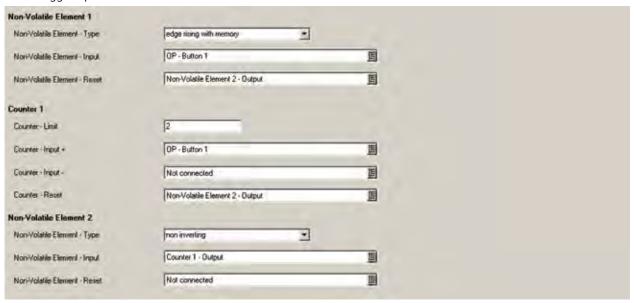


PB45

2S1W - Selector Switch Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire

Parameter Detail

AUTO Toggle Operation



7. Two speed two winding

The two-speed two-winding starter uses the SLOW contactor to select low-speed and the FAST contactor to select high-speed for dual-speed, single-direction, full-voltage operation. The SLOW and FAST contactors are mechanically and intelligently interlocked to prevent short circuiting of the input lines.

The basic SLOW operation of this starter is as follows.

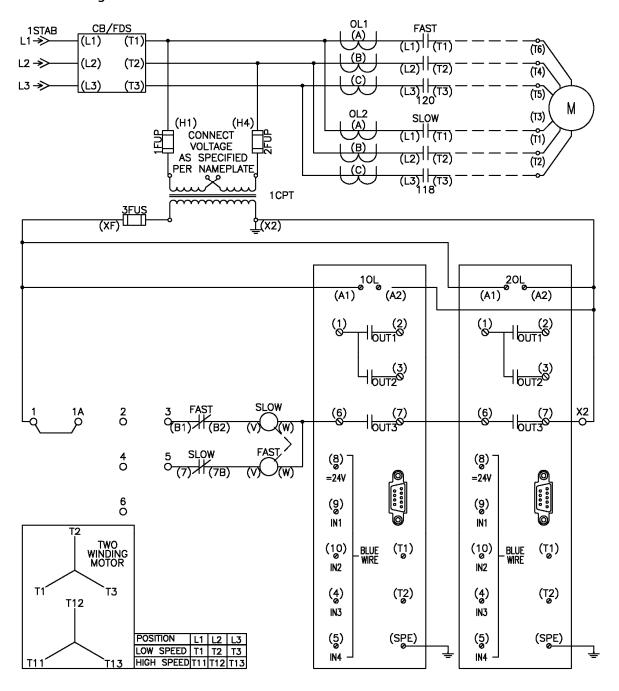
- 1. A local or remote SLOW start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 2 closes which energizes the coil of SLOW Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 2 opens which de-energizes the coil of SLOW Contactor.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The basic FAST operation of this starter is as follows.

- 1. A local or remote FAST start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 1 closes which energizes the coil of the FAST Contactor.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 1 opens which de-energizes the coil of the FAST.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

PB46

OL / 2S2W – Fixed Operation Mode – Local Overload Operation – Remote Monitoring



PB46

OL / 2S2W – Fixed Operation Mode – Local Overload Operation – Remote Monitoring

Operating Instructions

Local Control

- 1. All control external to device.
- 2. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open, which in turn de-energizes the SLOW & FAST Contactor Coils thus disengaging the SLOW & FAST Contactors ceasing current flow to the motor.

Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

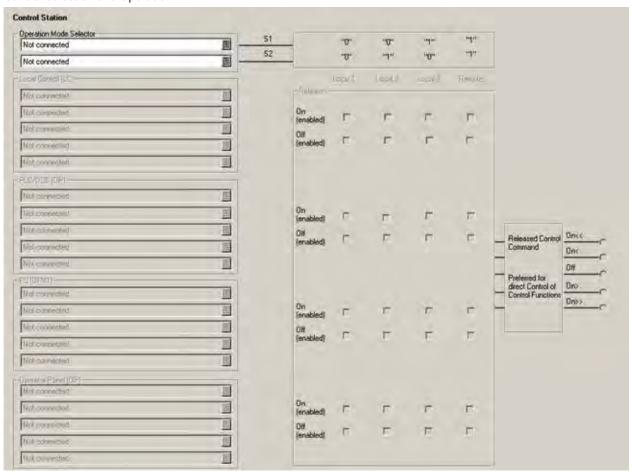
NOTE:

- 1. This setup is not recommended as its use eliminates local control of the starter via Simocode Pro as well as remote control over Profibus DP network communication.
- 2. Two Simocode Pro devices are required to utilize a 2S2W starter in this fashion.

PB46

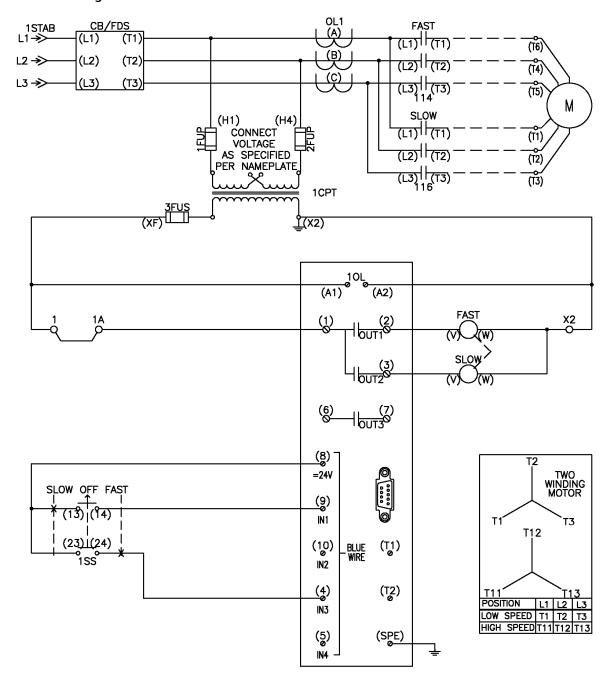
OL / 2S2W – Fixed Operation Mode – Local Overload Operation – Remote Monitoring

Parameter Detail



PB47

2S2W – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB47

2S2W - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor, place the Selector Switch in the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor, place the Selector Switch in the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default changeover pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default changeover pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

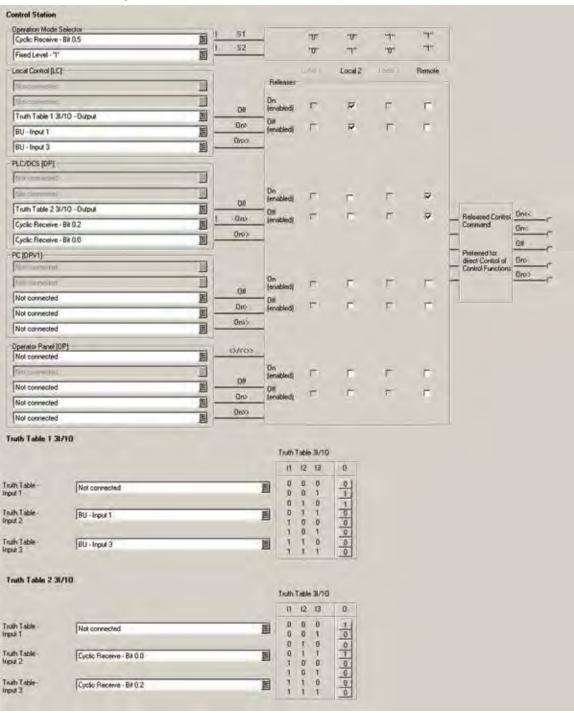
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB47

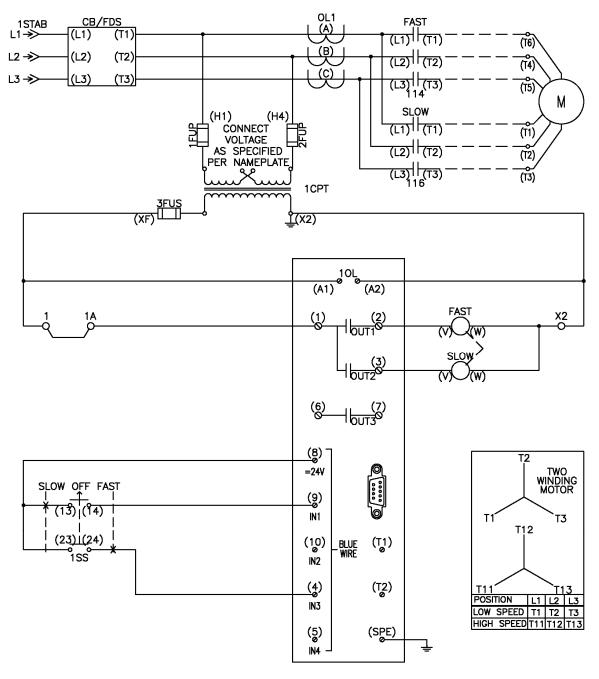
2S2W – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB48

2S2W - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire



PB48

2S2W – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2.to close
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

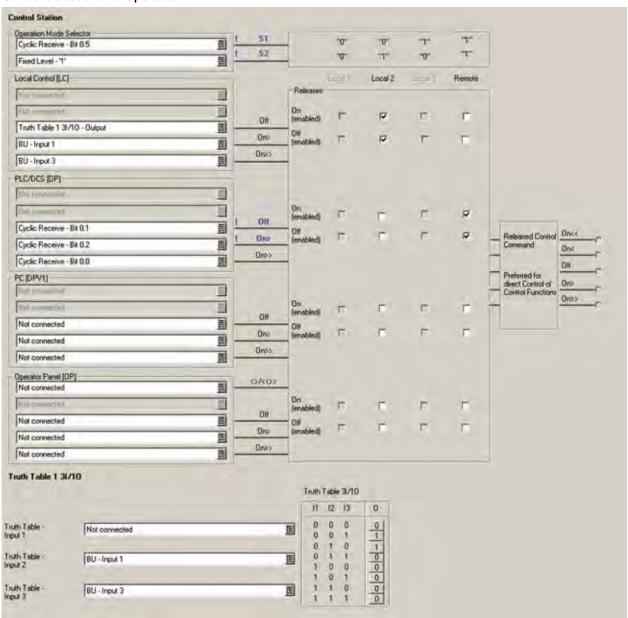
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB48

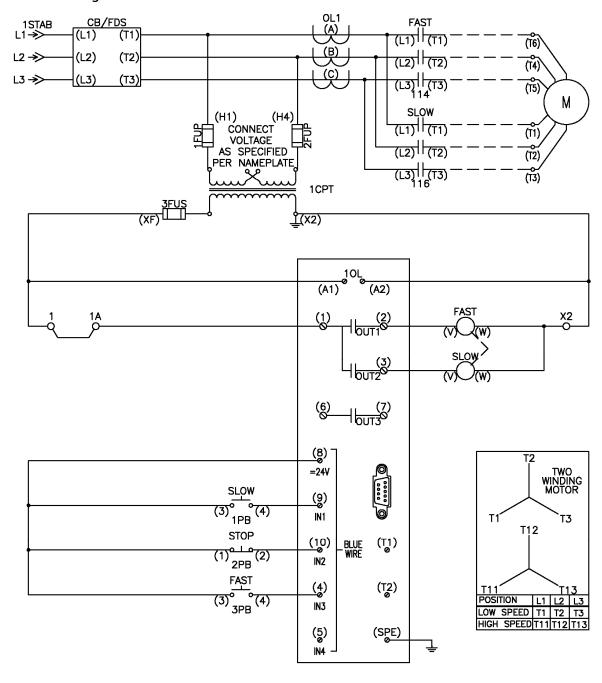
2S2W - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire

Parameter Detail



PB49

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire



PB49

2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is triggered causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW or FAST Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

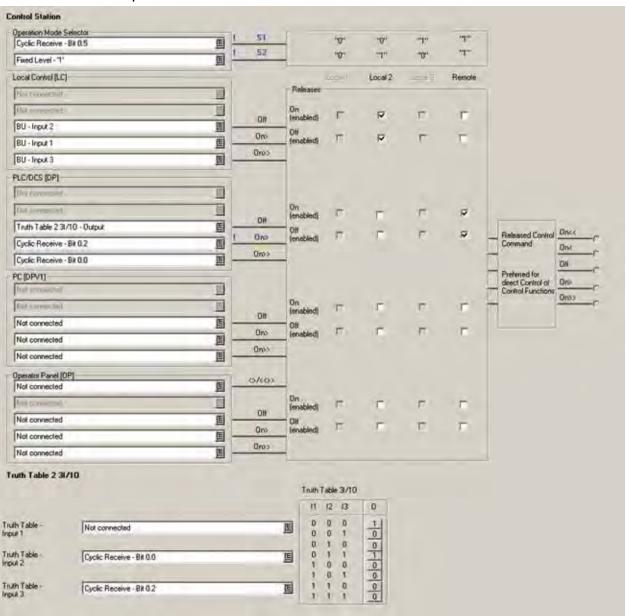
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB49

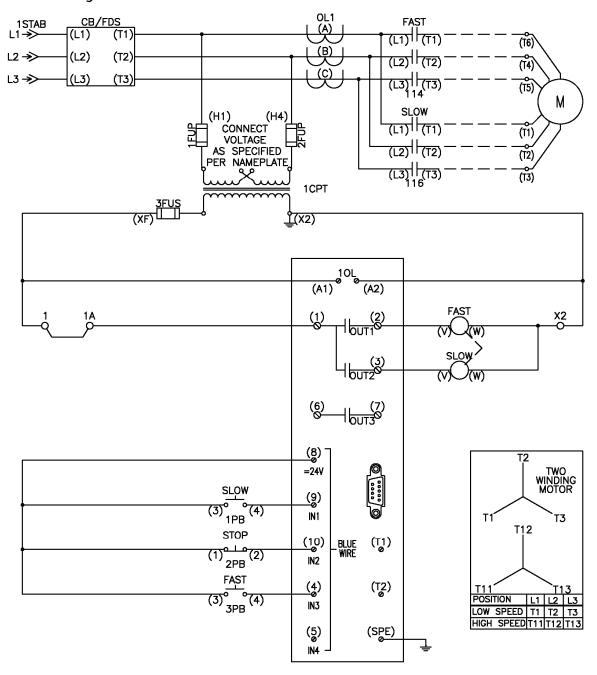
2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire

Parameter Detail



PB50

2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire PB - Remote 3-Wire



PB50

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW or FAST Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

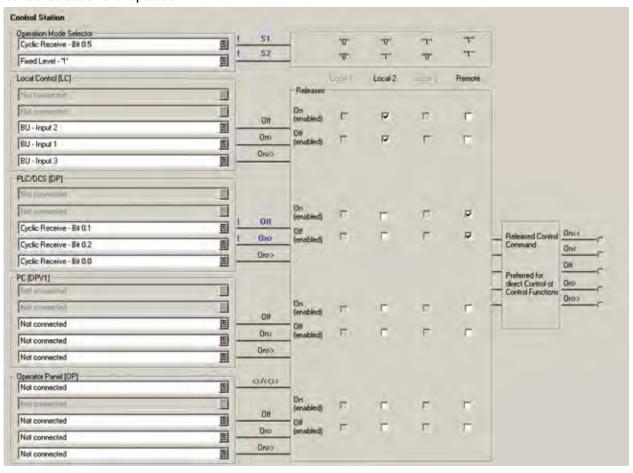
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB50

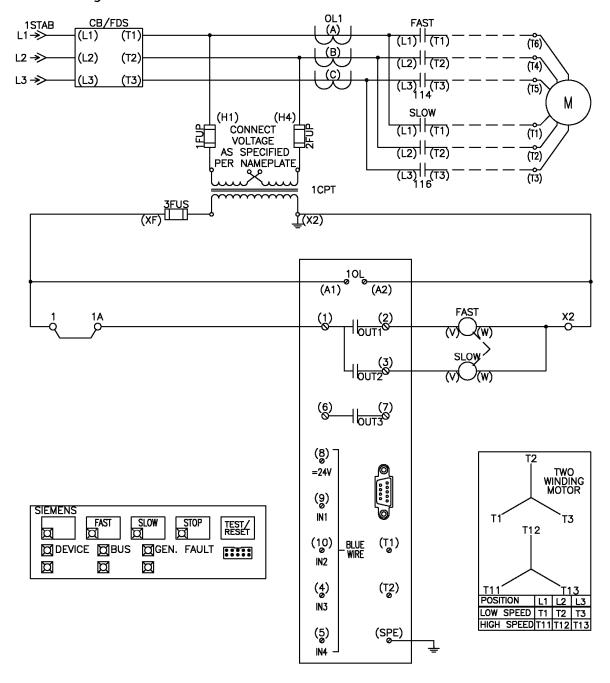
2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire

Parameter Detail



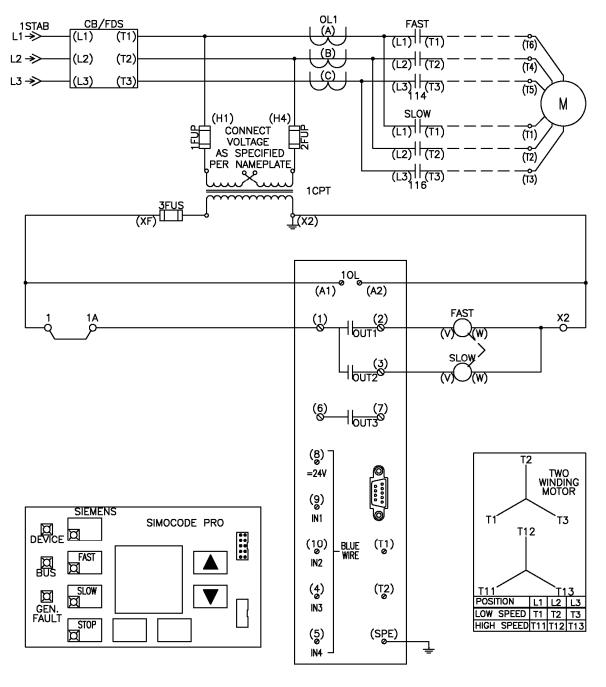
PB51

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB51

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire



PB51

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

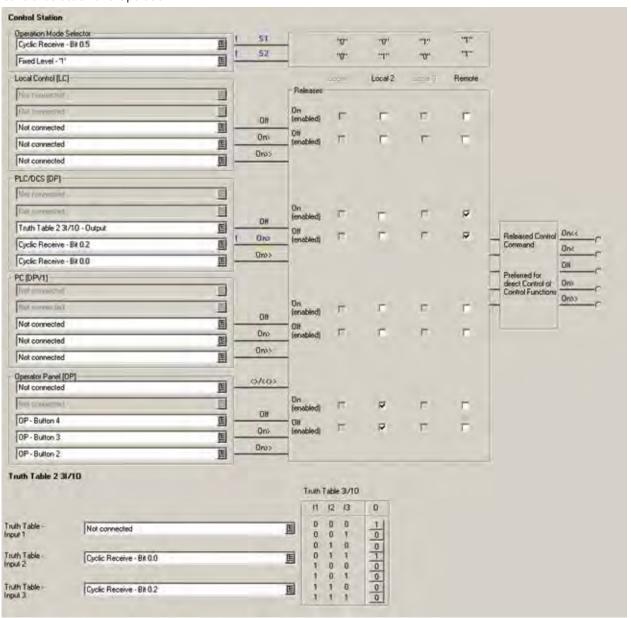
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB51

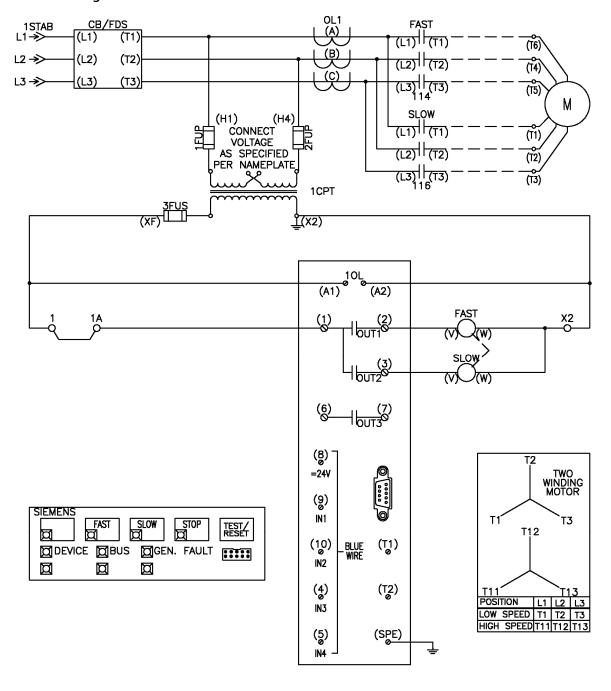
2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire

Parameter Detail



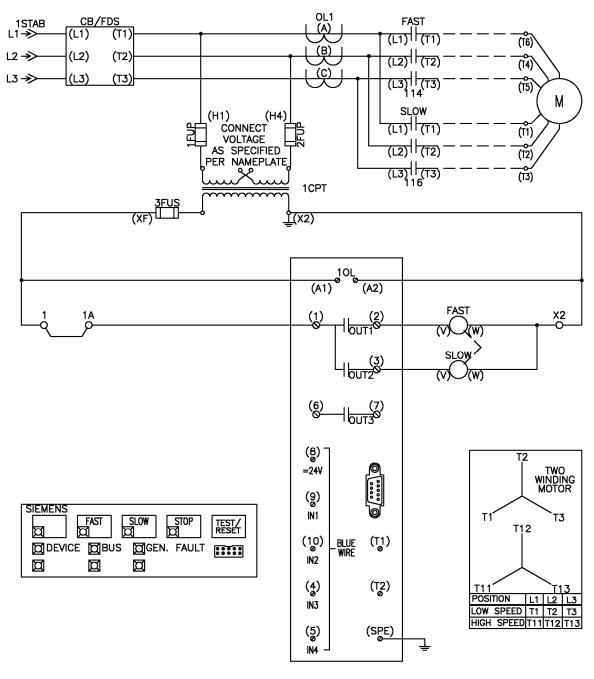
PB52

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire



PB52

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire



PB52

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then riggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

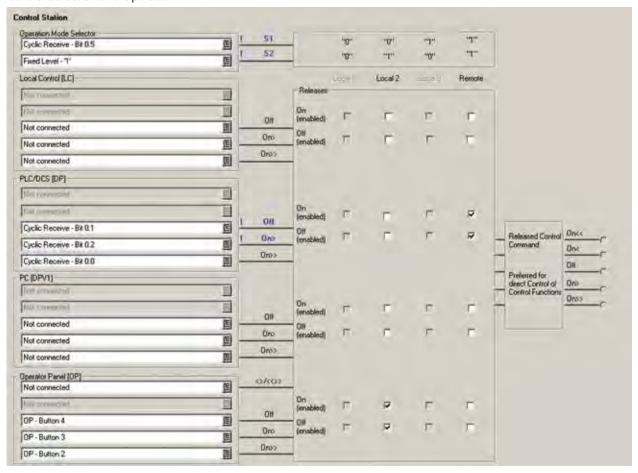
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB52

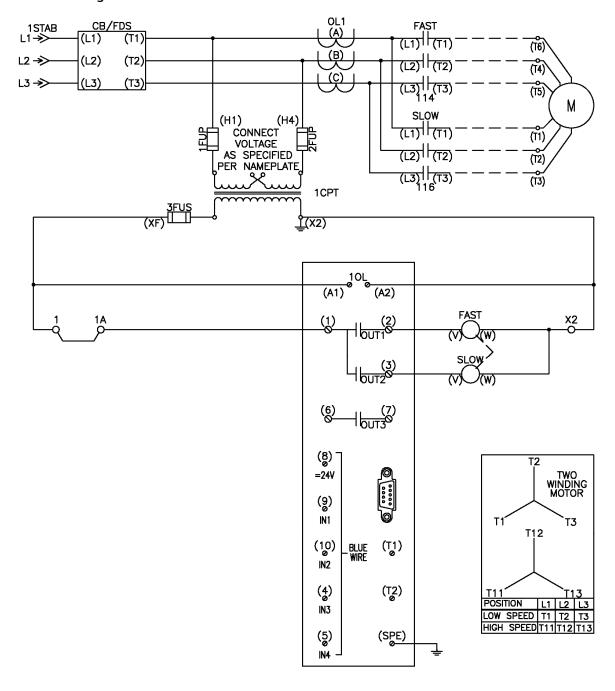
2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail



PB53

2S2W – Fixed Operation Mode – No Local – Remote 2-Wire



PB53

2S2W - Fixed Operation Mode -No Local - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the SLOW Contactor SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor SIMOCODE Input 3 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remotel Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

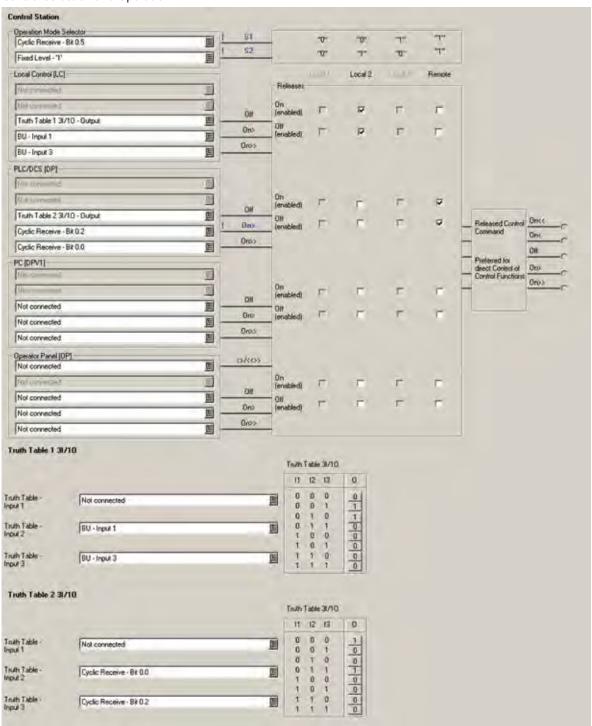
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB53

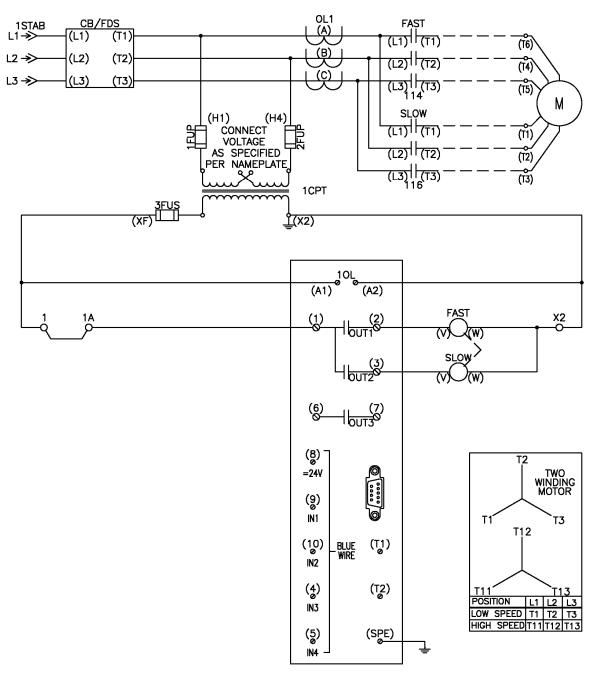
2S2W – Fixed Operation Mode – No Local – Remote 2-Wire

Parameter Detail



PB54

2S2W - Profibus Bit Operation Mode Selection -No Load – Remote 3-Wire



PB54

2S2W – Profibus Bit Operation Mode Selection – No Load – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the SLOW Contactor, SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor SIMOCODE Input 3 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor SIMOCODE Inputs 1 and 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

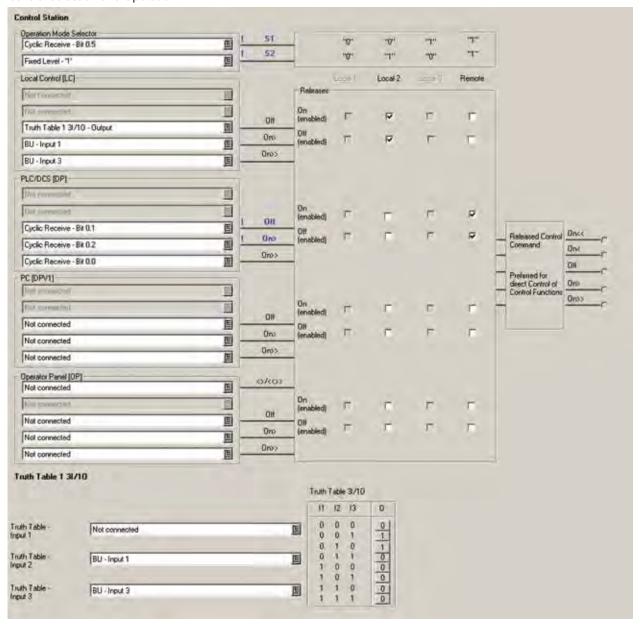
Resetl Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB54

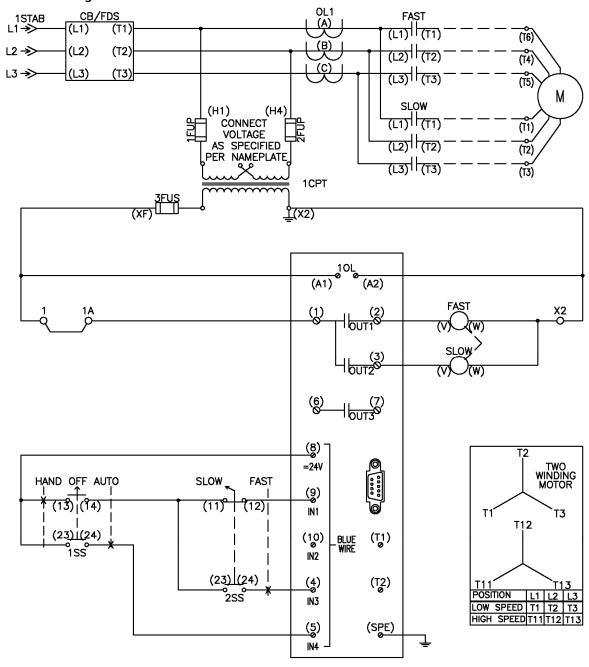
2S2W – Profibus Bit Operation Mode Selection – No Load – Remote 3-Wire

Parameter Detail



PB55

2S2W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire



PB55

2S2W - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 13.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operationto SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactors the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

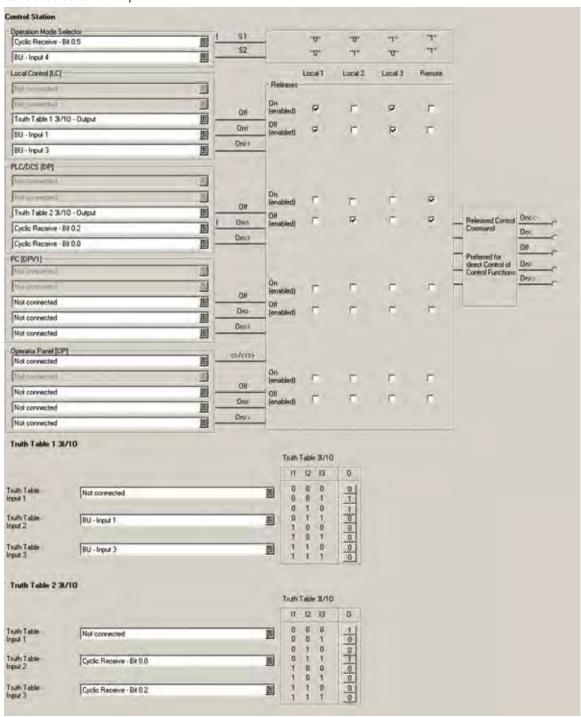
Reset Control

1. General Fault conditions may be reset using the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB55

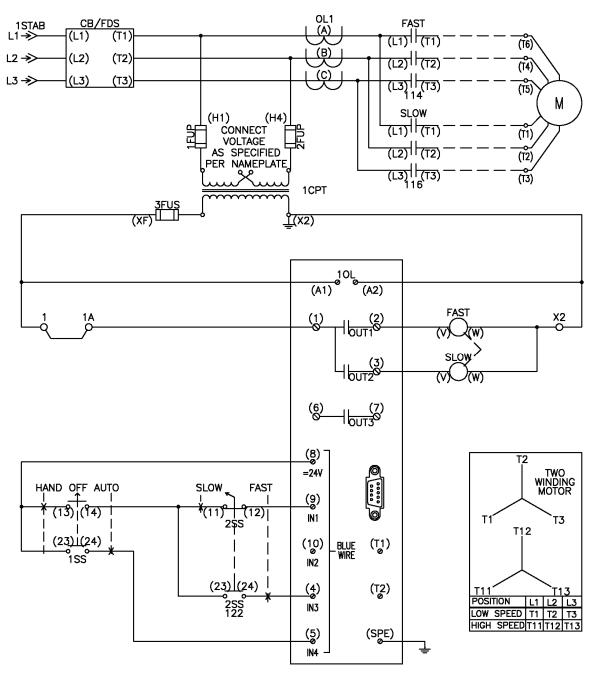
2S2W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire

Parameter Detail



PB56

2S2W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire



PB56

2S2W – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Inputs 1 and 3.
- 2. To engage the SLOW Contactor the Selector Switch is placed into the SLOW position. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Selector Switch is placed into the FAST position. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST & SHORT Contactors the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

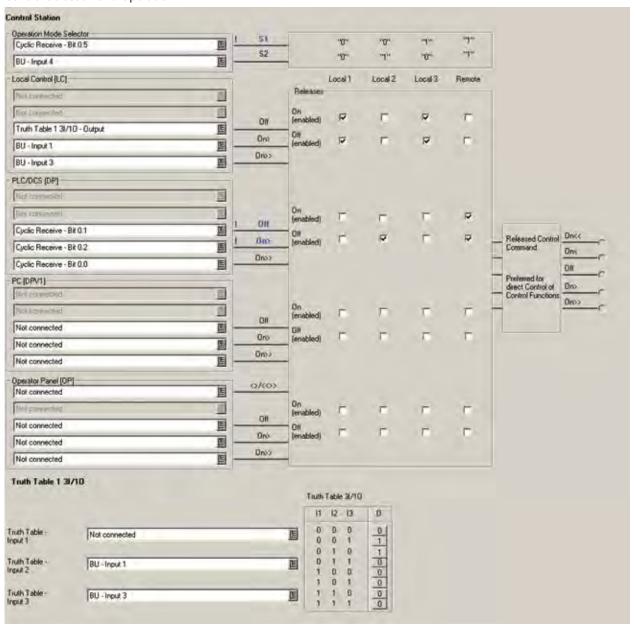
Reset Control

1. General Fault conditions are reset using the TEST/RESET button on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB56

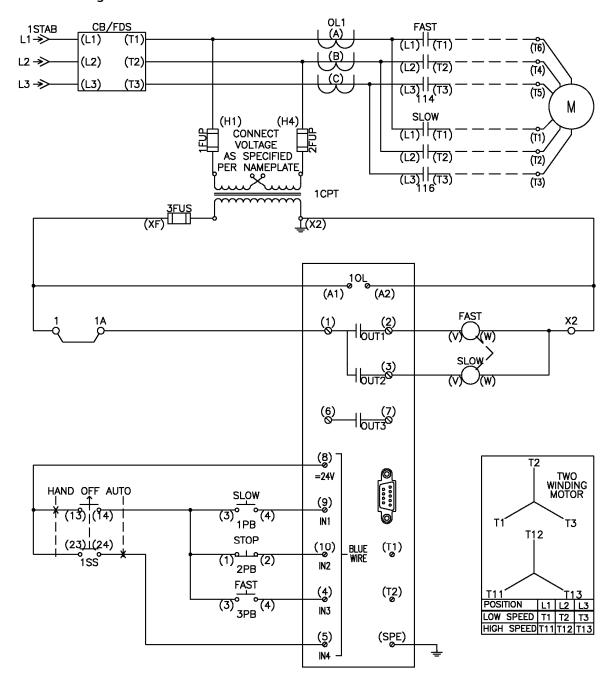
2S2W - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire

Parameter Detail



PB57

2S2W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire



PB57

2S2W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

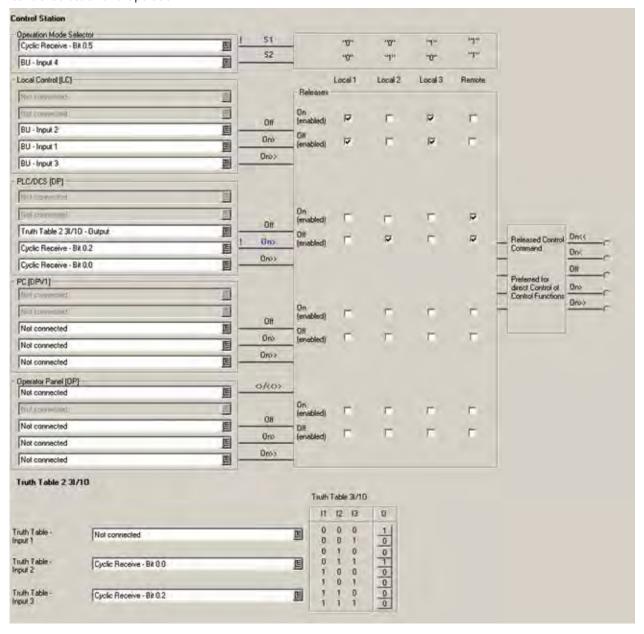
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB57

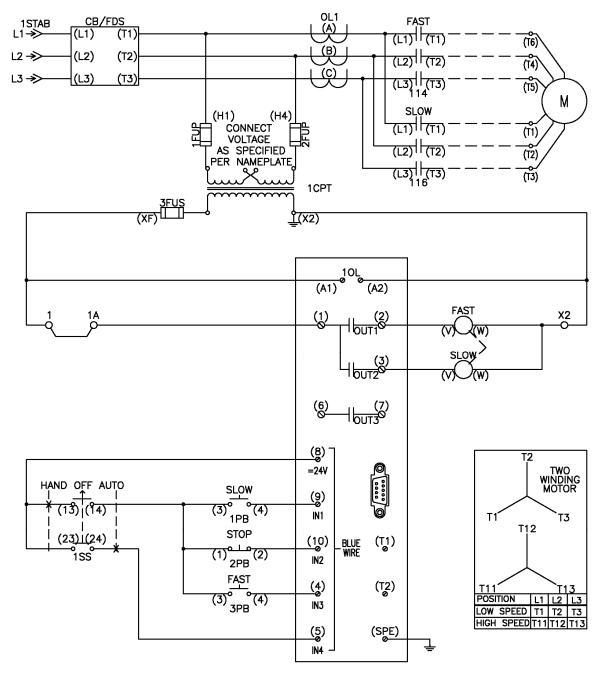
2S2W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Parameter Detail



PB58

2S2W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire



PB58

2S2W – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON >> Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the SLOW Contactor the Slow Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Fast Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

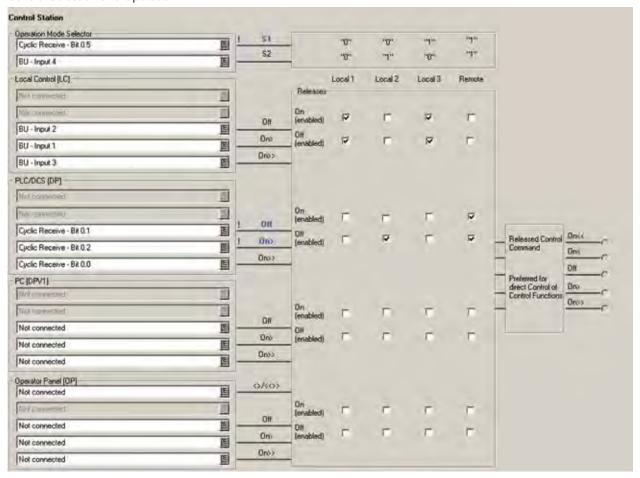
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB58

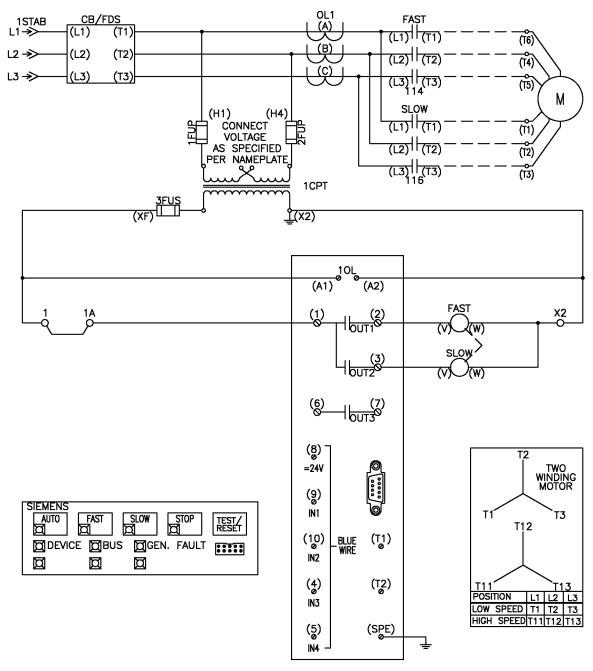
2S2W - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 2-Wire

Parameter Detail



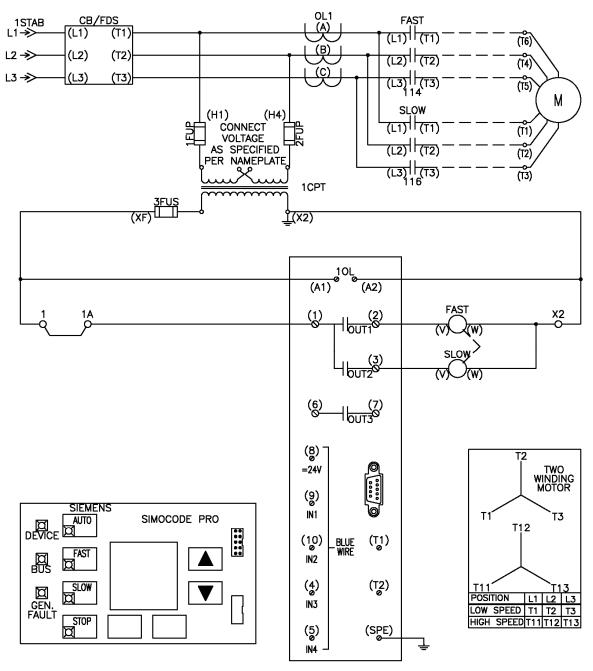
PB59

2S2W – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire



PB59

2S2W – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire



PB59

2S2W – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default changeover Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

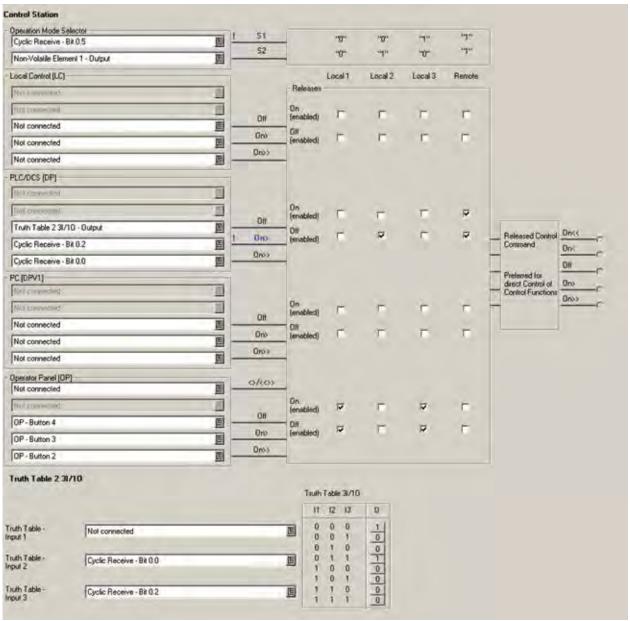
Reset Control

1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB59

2S2W - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire

Parameter Detail



PB59

2S2W – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire

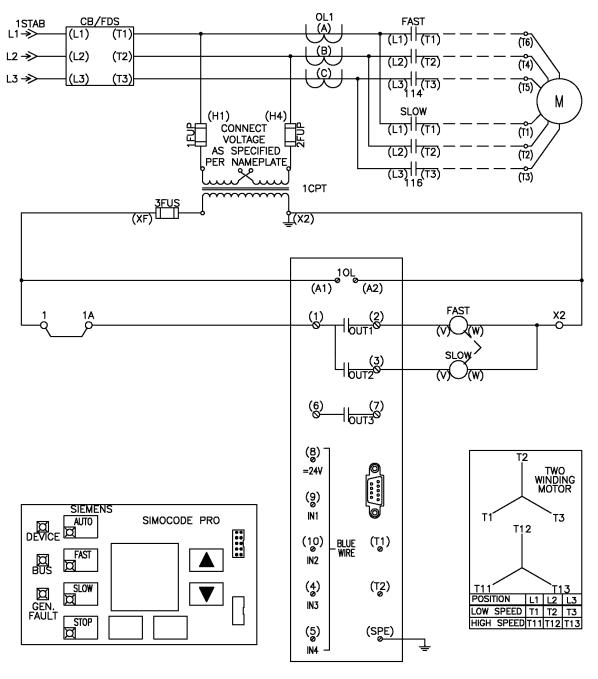
Parameter Detail

AUTO Toggle Operation



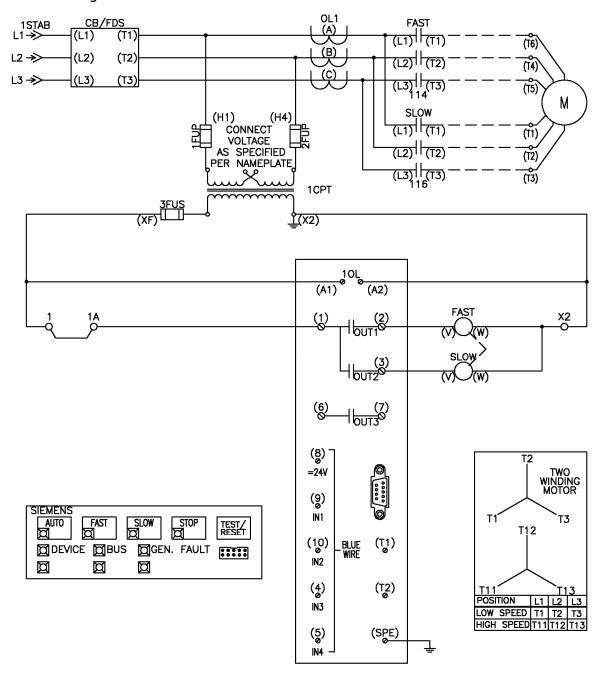
PB60

2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire OP – Remote 3-Wire



PB60

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire



PB60

2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (SLOW) is connected to the ON > Control Command, Operator Panel Button 2 (FAST) is connected to the ON >> Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the SLOW Contactor the OP Slow Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the OP Fast Pushbutton is depressed. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON >> Control Command and Profibus Cyclic Receive Bit 0.1 is connected to OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the SLOW Contactor the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 3. To engage the FAST Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON >> Control Command is then triggered, causing SIMOCODE Output 1 to close.
- 4. To disengage the SLOW Contactor or the FAST Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Outputs 1 and 2 to open.
- 5. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation. The default Change-over Pause for changing speed from FAST operation to SLOW operation is 0 seconds.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

Reset Control

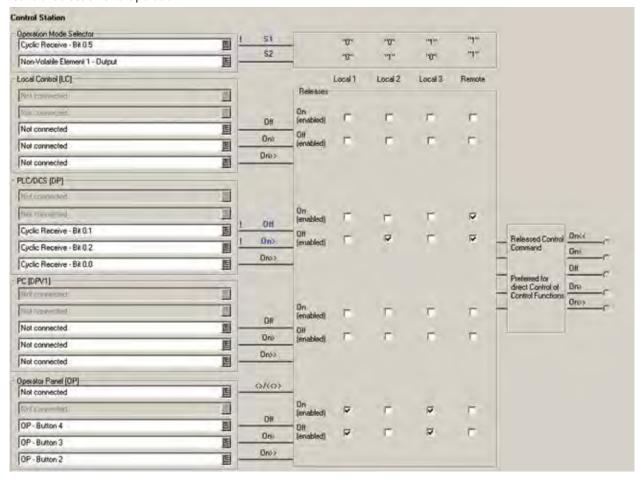
1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB60

2S2W – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail

Control Selection and Operation

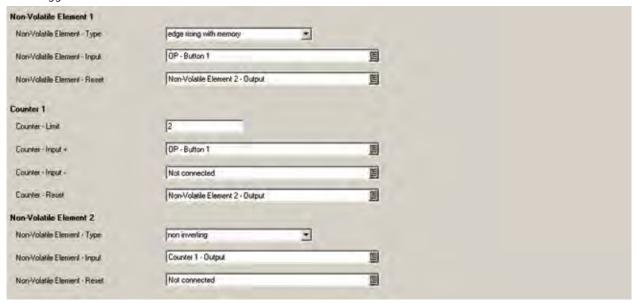


PB60

2S2W - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 3-Wire

Parameter Detail

Auto Toggle Detail



8. 3RW40 Reduced Voltage Soft Starter with Input Isolation Contactor

The reduced voltage soft starter uses an SCR equipped solid state controller to provide smooth, stepless acceleration by controlling the applied voltage, current, and torque to the motor terminals for single-speed, full-voltage operation. An input isolation contactor is integrated into the design to provide complete voltage removal to the motor windings.

The basic operation of this starter is as follows.

- 1. A local or remote start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 3 closes giving the RVSS a signal to begin operation.
- 3. The RVSS RUN contact closes relaying the SIMOCODE Pro to close Output 1 which energizes the coil of Input Isolation Contactor 3M.
- 4. With the Input Isolation Contactor 3M closed the RVSS follows its settings for ramp-up, run, and internal bypass.
- 5. A local or remote stop signal is given to the SIMOCODE Pro.
- 6. The SIMOCODE Pro Output 3 opens giving the RVSS a signal to stop operation.
- 7. The RVSS follows its settings for ramp-down opening the RVSS RUN contact when the designated time has elapsed.
- 8. With the RVSS RUN contact open the SIMOCODE Pro opens its Output 1 which de-energizes the coil of Input Isolation Contactor 3M.
- 9. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The RVSS auxiliary contacts are connected to the SIMOCODE Pro inputs to provide starter control as well as operation feedback over Profibus-DP.

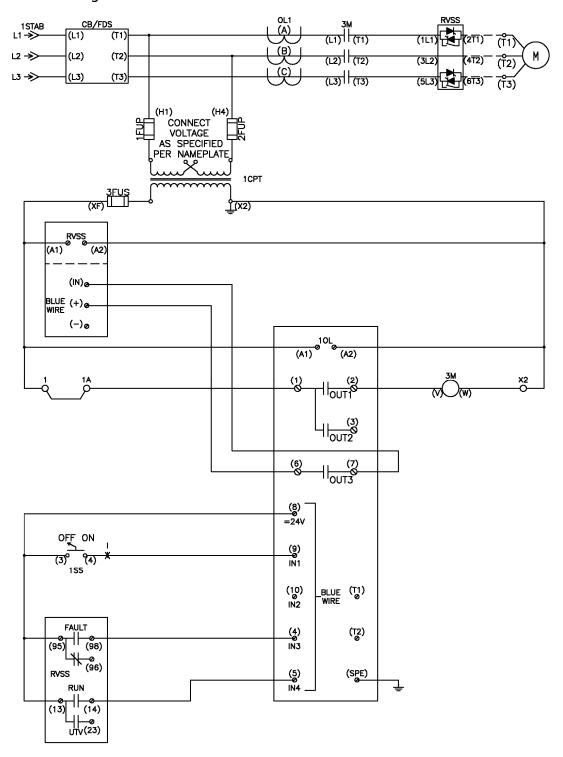
- o The RVSS RUN contact provides direct control over the 3M input isolation contactor and starter condition feedback. When active the contact will signal the SIMOCODE Pro to close Output 1 to energize the 3M Isolation Contactor coil. This contact will switch states during ramp-up, internal bypass, and ramp-down.
- o The RVSS FAULT contact provides starter condition feedback. When active the contact will signal the SIMOCODE Pro to trigger an external fault command. This contact will switch states during thyristor thermal overload, phase failure, no load voltage, mains under-voltage, mains over-voltage, or equipment error.

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RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation

Connection Diagram



PB62

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault, SIMOCODE Output 3 will open.

Remote Control

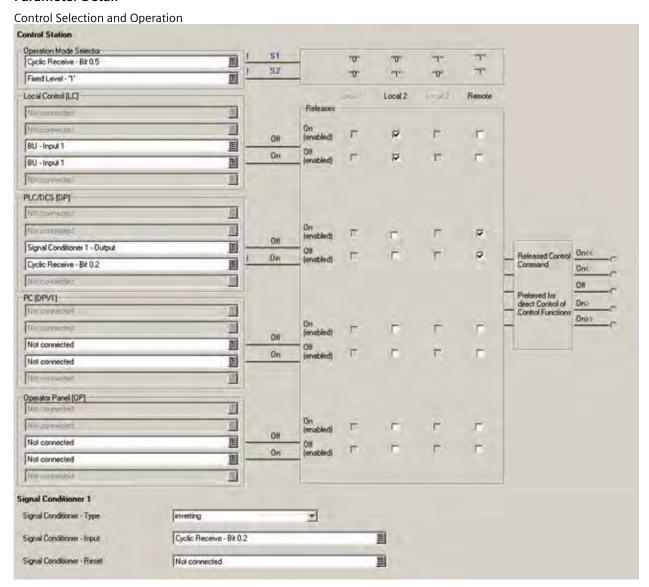
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB62

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire 3RW40 w/ Input Isolation

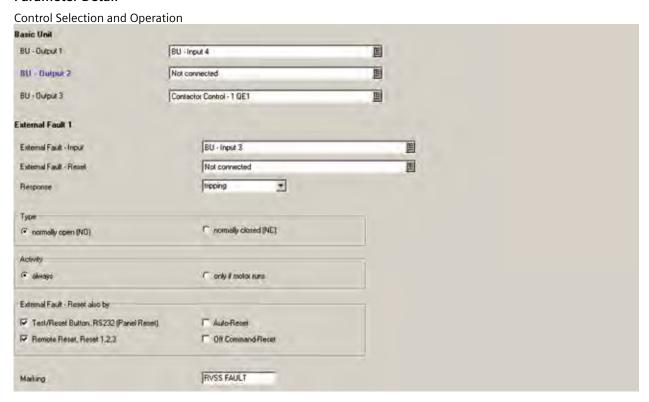
Parameter Detail



PB62

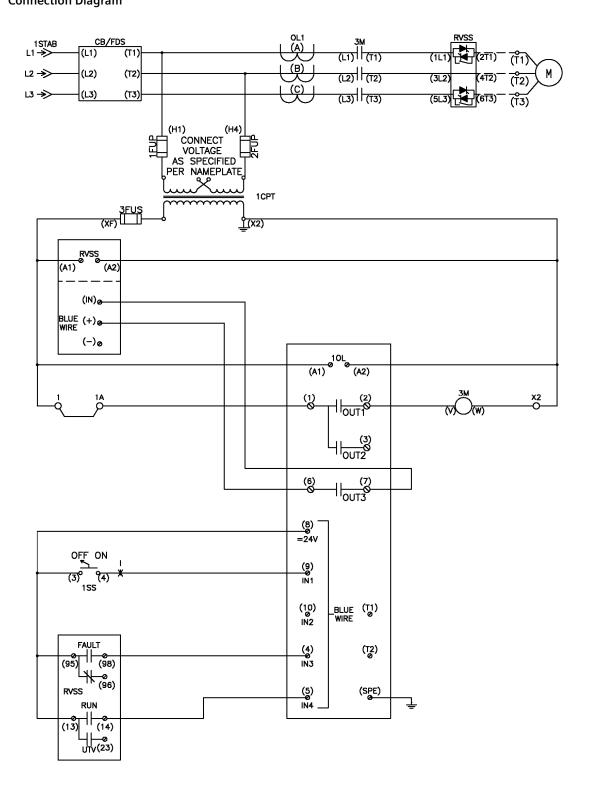
RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/ Input Isolation

Parameter Detail



PB63

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation **Connection Diagram**



PB63

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault, SIMOCODE Output 3 will open.

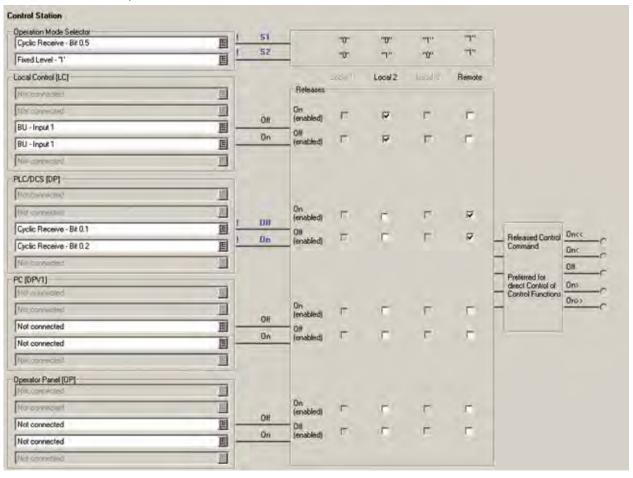
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB63

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

Control Selection and Operation

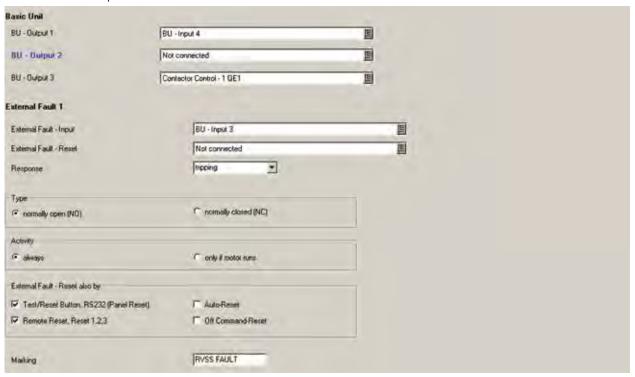


PB63

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

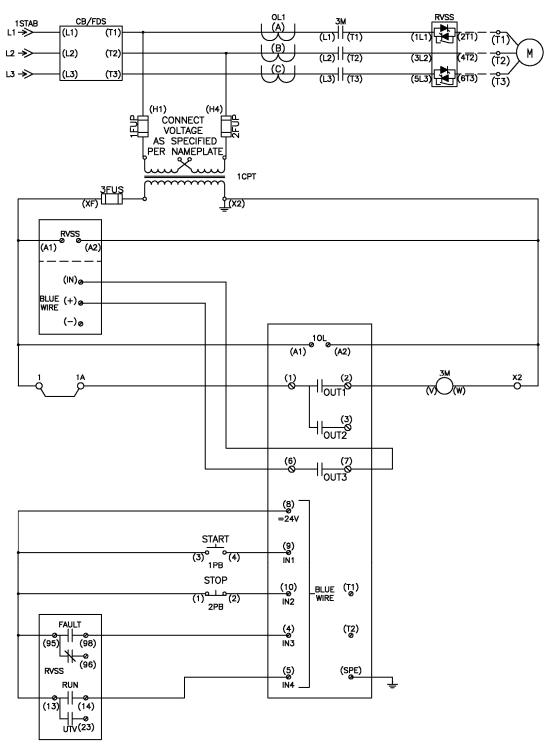
RVSS Control and Operation



PB64

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation

Connection Diagram



PB64

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open..

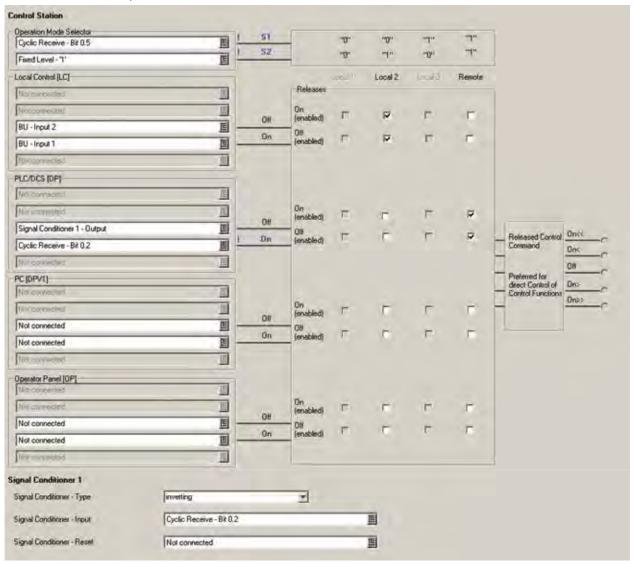
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB64

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail

Control Selection and Operation

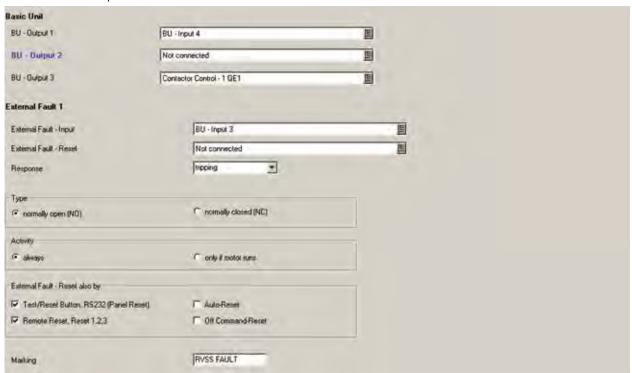


PB64

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation

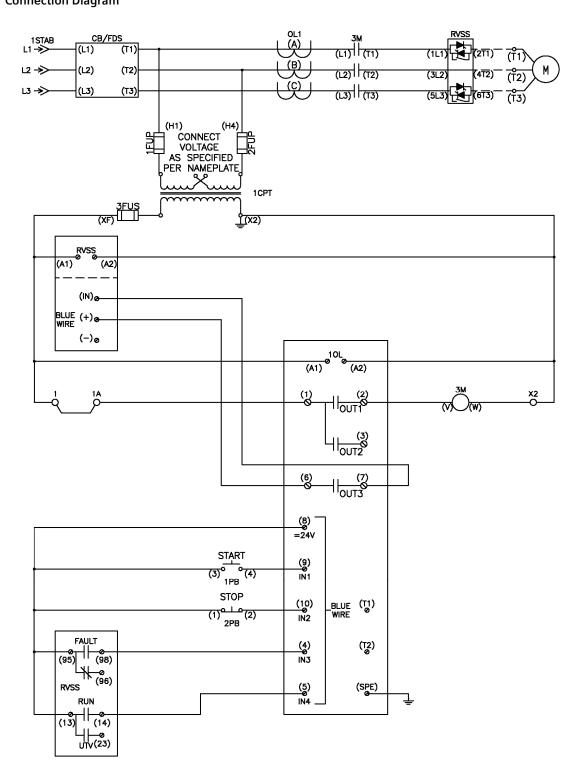
Parameter Detail

RVSS Control and Operation



PB65

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation **Connection Diagram**



PB65

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactived.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault, SIMOCODE Output 3 will open.

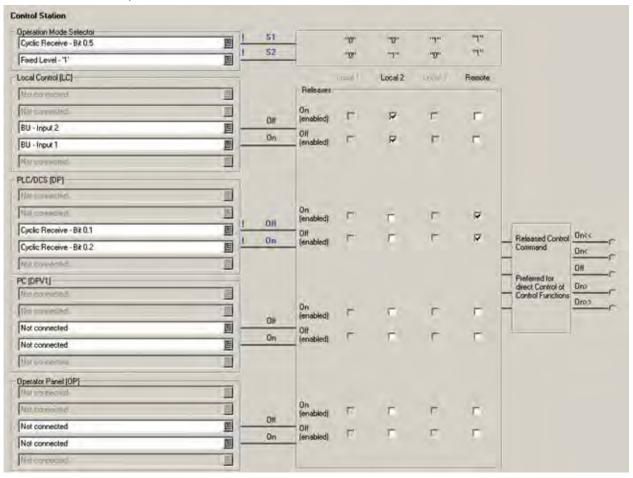
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB65

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

Control Selection and Operation

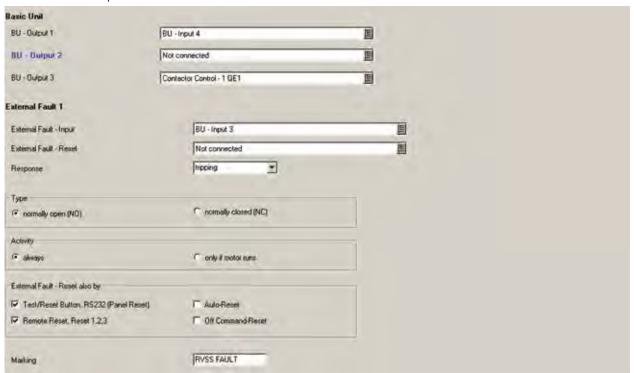


PB65

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation

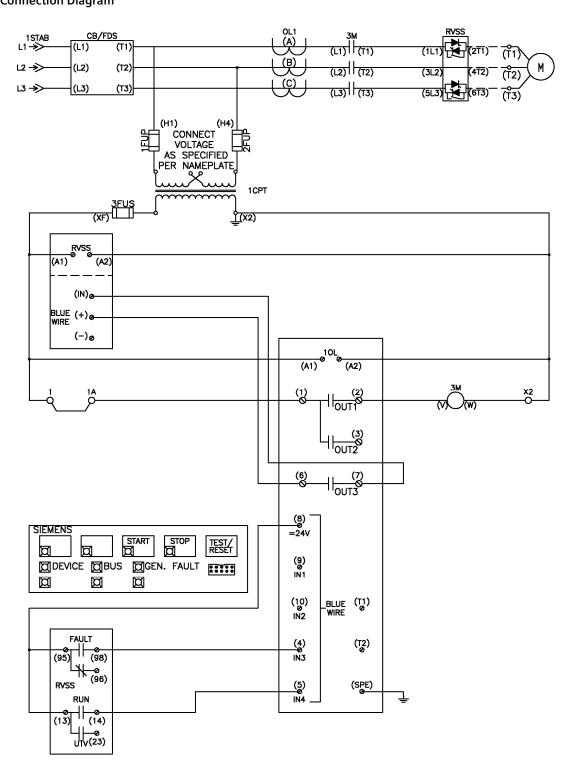
Parameter Detail

RVSS Control and Operation



PB66

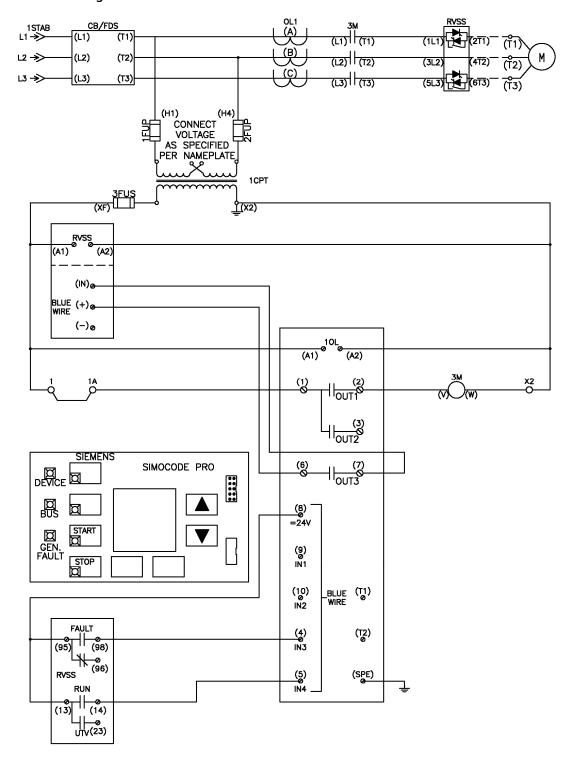
RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP – Remote 3-Wire 3RW40 w/Input Isolation **Connection Diagram**



PB66

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OPD – Remote 3-Wire 3RW40 w/Input Isolation

Connection Diagram



PB66

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Rampdown time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

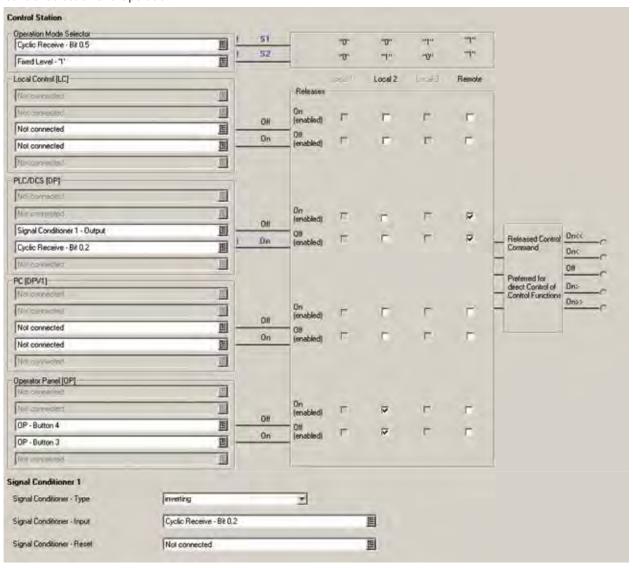
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB66

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

Control Selection and Operation

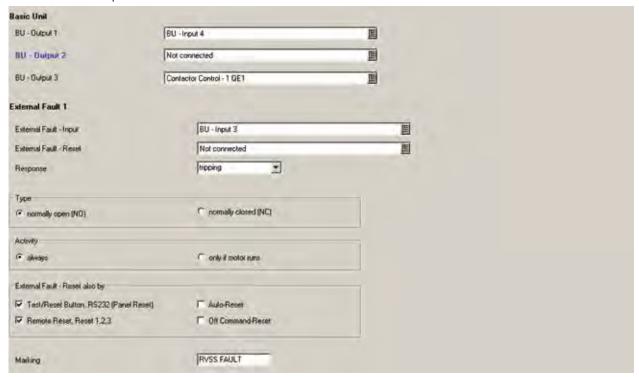


PB66

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

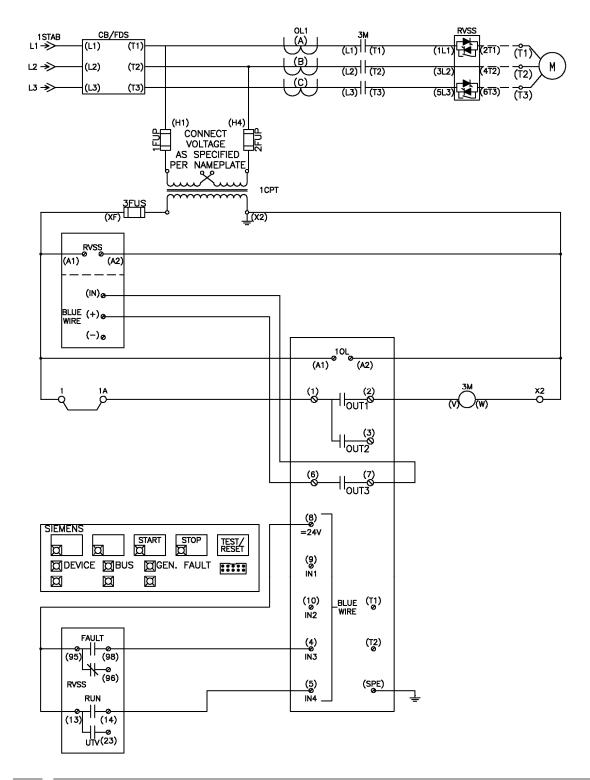
RVSS Control and Operation



PB67

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation

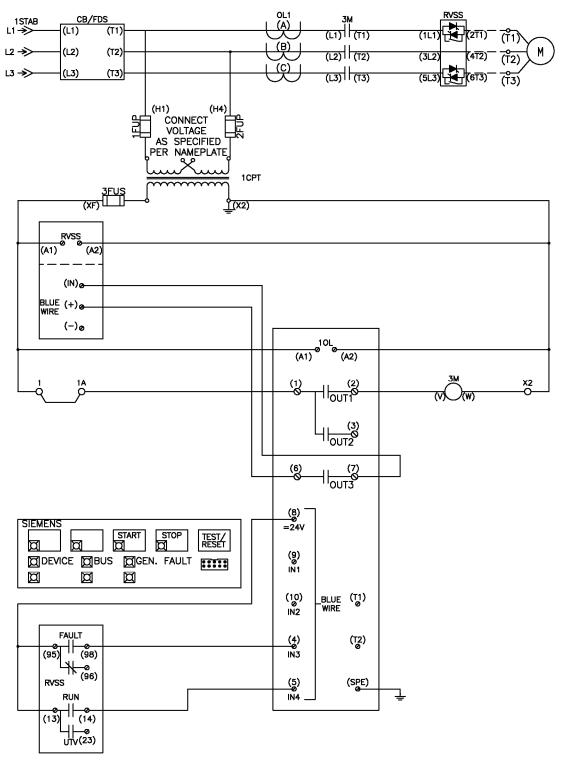
Connection Diagram



PB67

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW40 w/Input Isolation

Connection Diagram



PB67

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

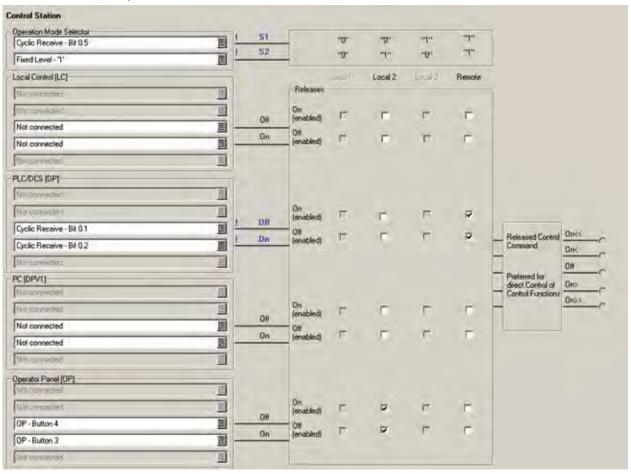
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB67

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail

Control Selection and Operation

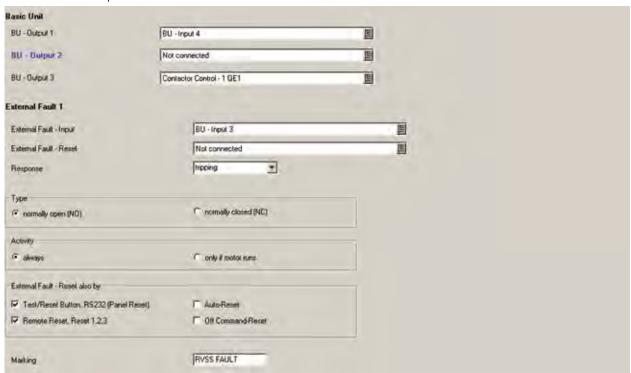


PB67

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail

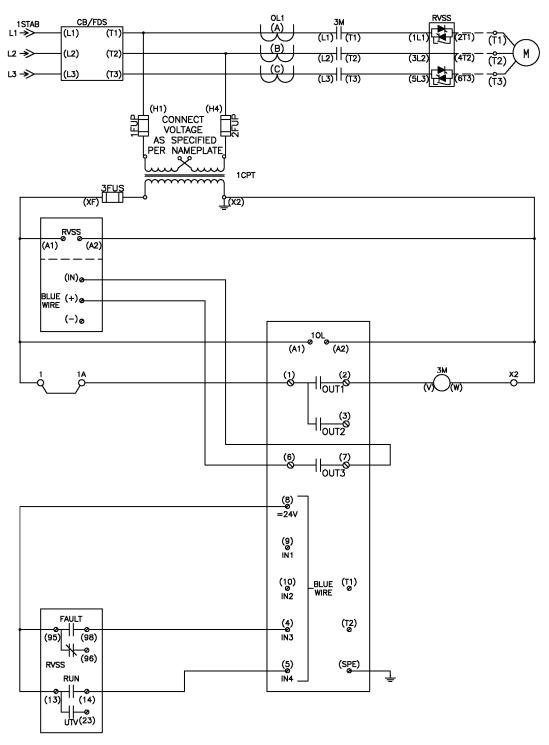
RVSS Control and Operation



PB68

RVSS - Profibus Bit Operation Mode Selection - No Local - Remote 2 Wire 3RW40 w/ Input Isolation

Connection Diagram



PB68

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2 Wire 3RW40 w/ Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the SIMOCODE Input 1 is activated. The ON > Control Command is then triggered causing the SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Input 4 is then activated causing the SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered causing the SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Input 4 is deactivated causing the SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event the SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered causing the SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Input 4 is then activated causing the SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered causing the SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Input 4 is deactivated causing the SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event the SIMOCODE Output 3 will open.

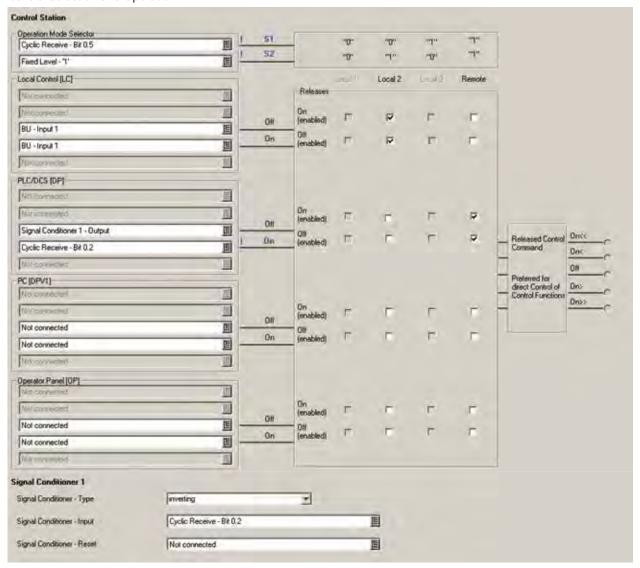
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only

PB68

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2 Wire 3RW40 w/ Input Isolation

Parameter Detail

Control Selection and Operation

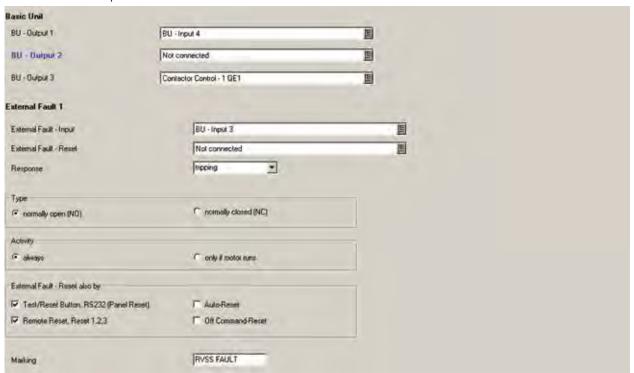


PB68

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail

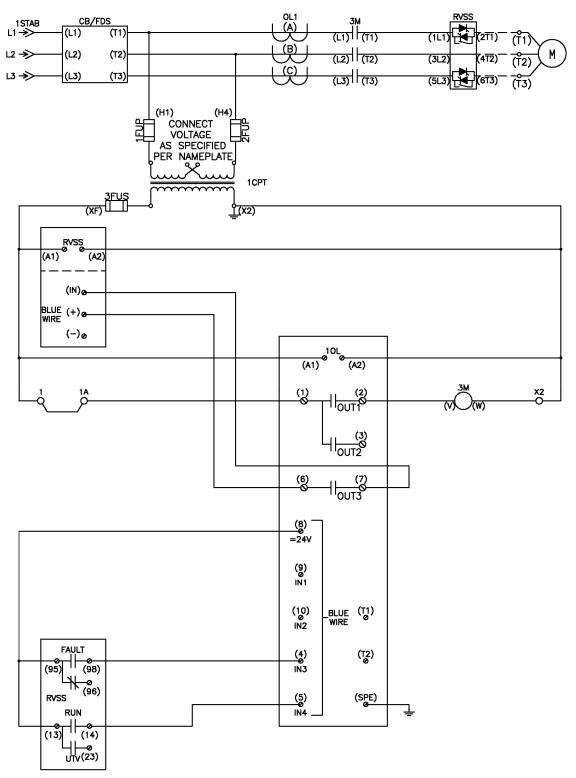
RVSS Control and Operation



PB69

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW40 w/Input Isolation

Connection Diagram



PB69

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

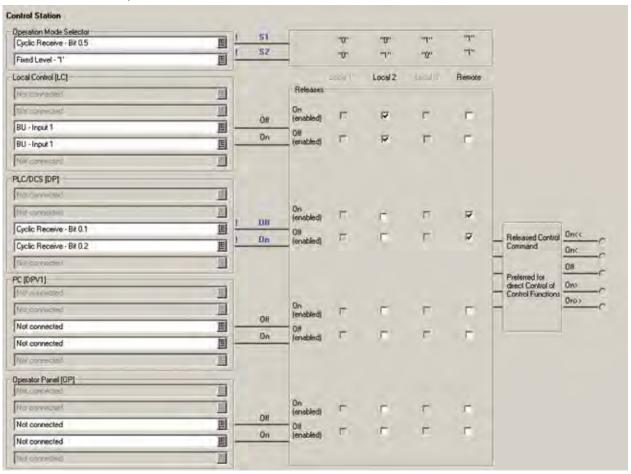
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB69

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW40 w/Input Isolation

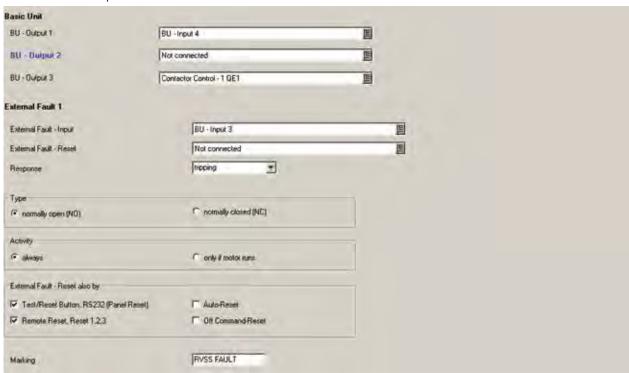
Parameter Detail



PB69

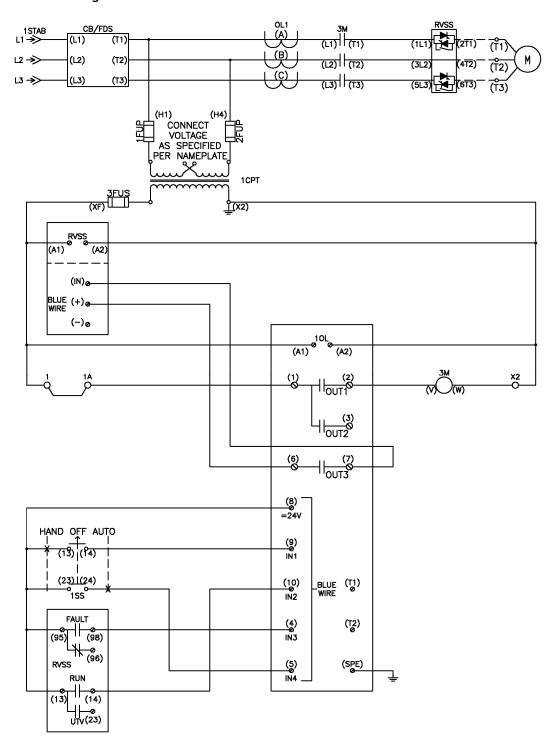
RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail



PB70

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation



PB70

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

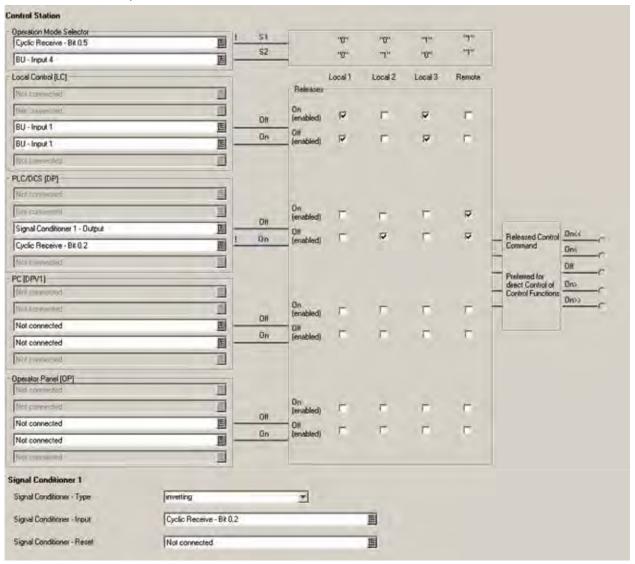
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB70

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation

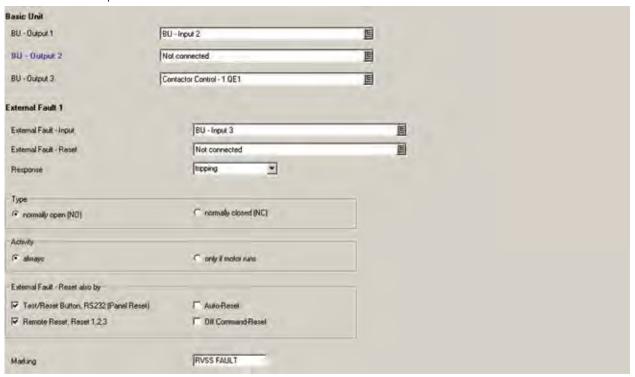
Parameter Detail



PB70

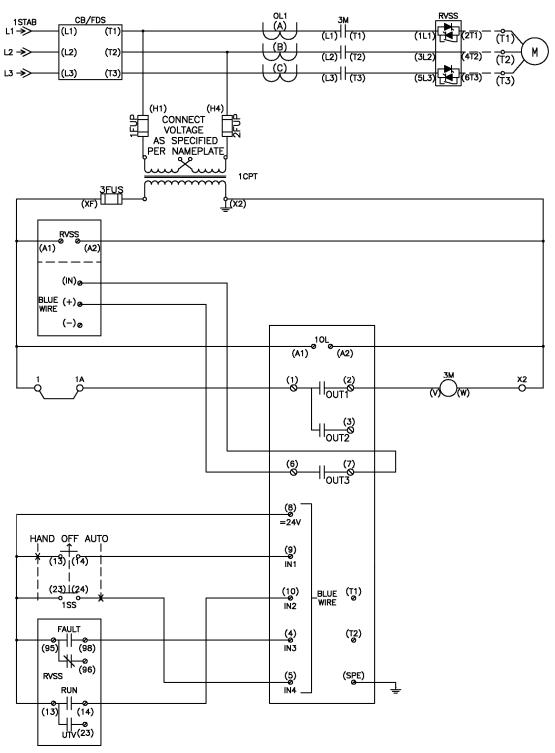
RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail



PB71

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation



PB71

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event, SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

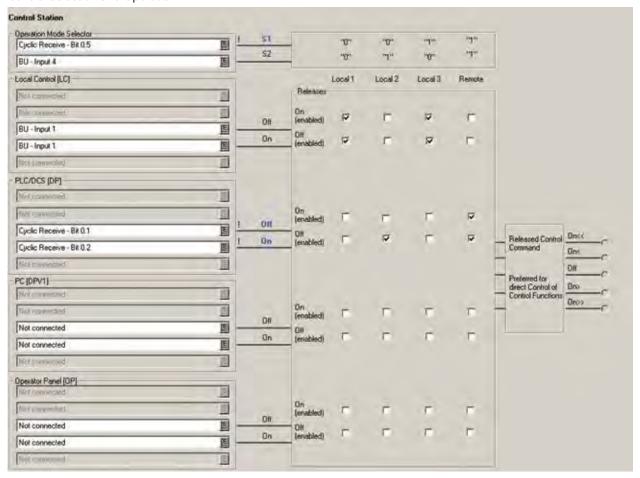
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB71

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

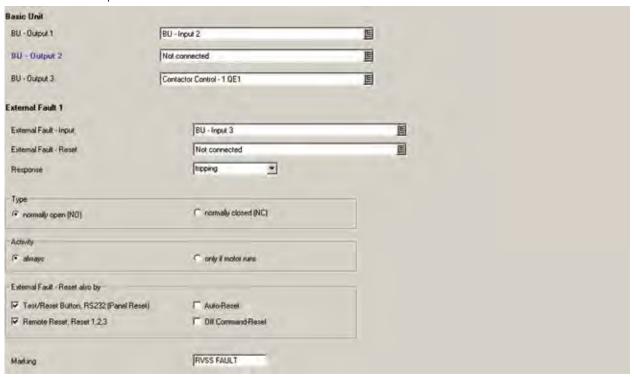
Parameter Detail



PB71

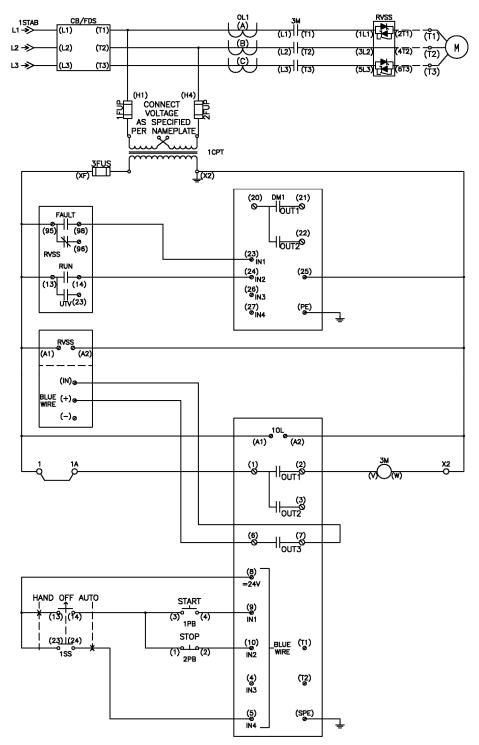
RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail



PB72

RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation



PB72

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position and the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS two methods are available. 1: while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. 2: the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

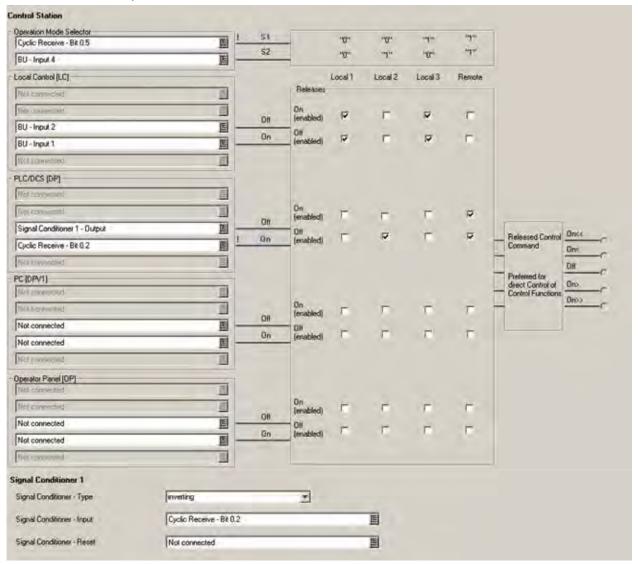
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital module Input 1 will indicate RVSS Fault Status only.

PB72

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail



PB72

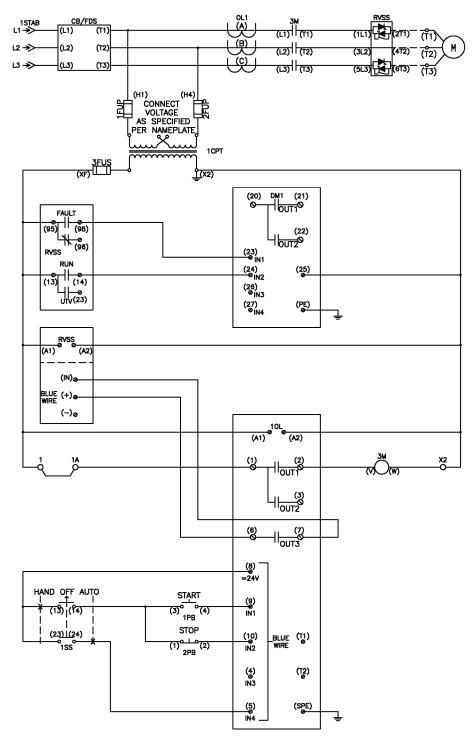
RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail



PB73

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation



PB73

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to Operation Mode Selector S2.
- 2. To engage Local Operation Mode, SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode, SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode, SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position and the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault, SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault, SIMOCODE Output 3 will open.

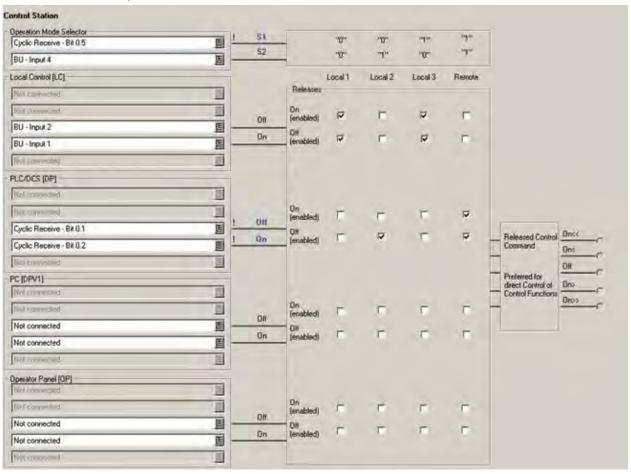
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.

PB73

RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail



PB73

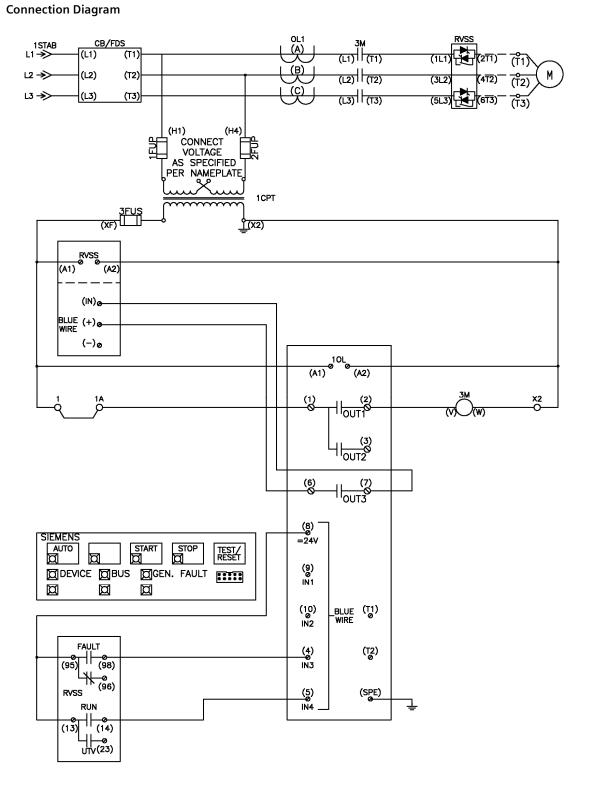
RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail



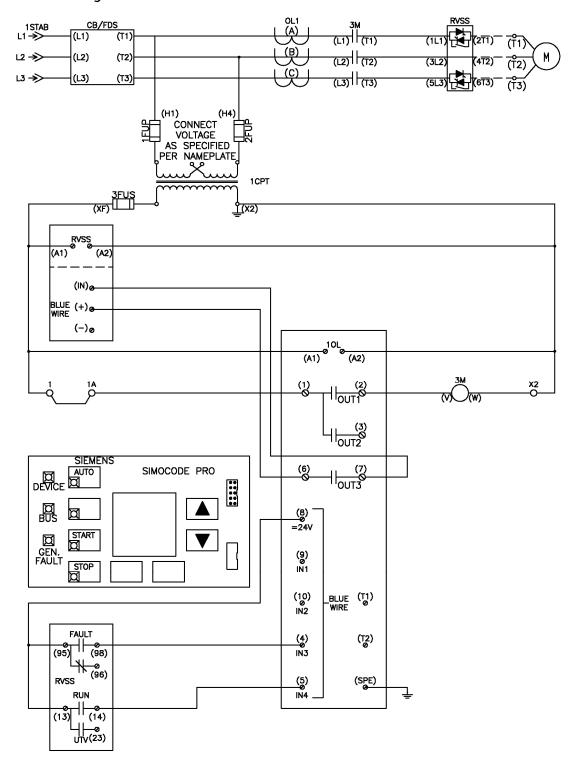
PB74

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire 3RW40 w/Input Isolation



PB74

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire 3RW40 w/Input Isolation



PB74

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 5. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 6. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 7. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 8. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 9. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Rampdown time must be less than or equal to the SIMOCODE Execution Time).
- 10. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, | causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Rampdown time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

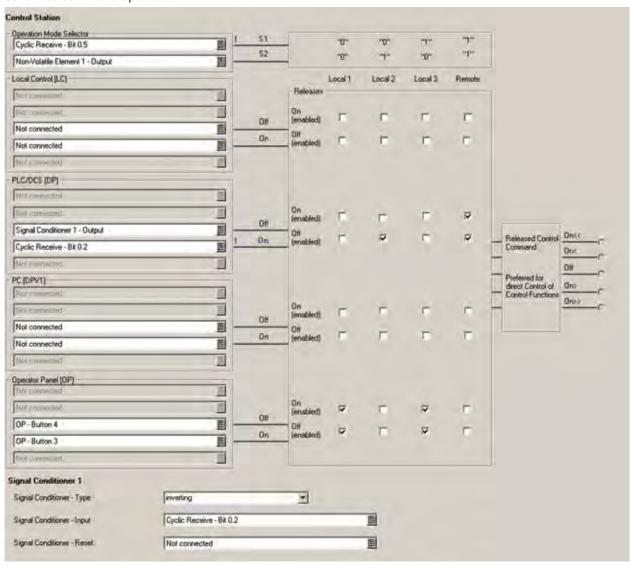
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB74

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail



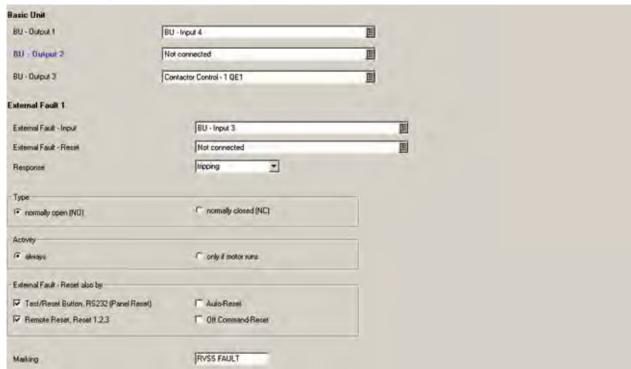
PB74

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW40 w/Input Isolation

Parameter Detail

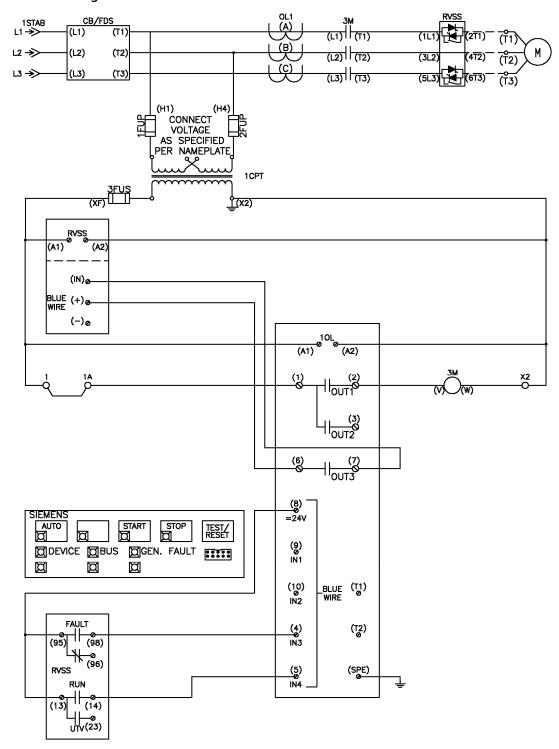
AUTO Toggle Operation





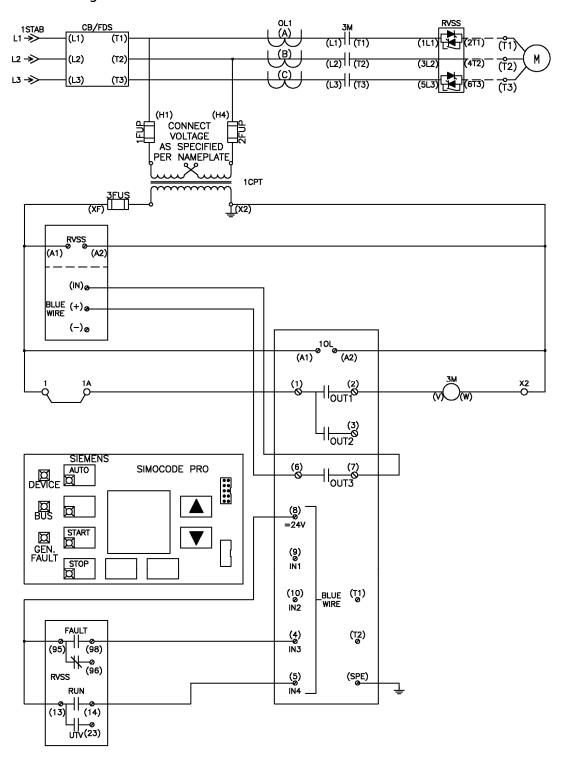
PB75

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW40 w/Input Isolation



PB75

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 3-Wire 3RW40 w/Input Isolation



PB75

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode, Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via the LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 3 to open.
- 5. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing Output 1 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 3 will open.

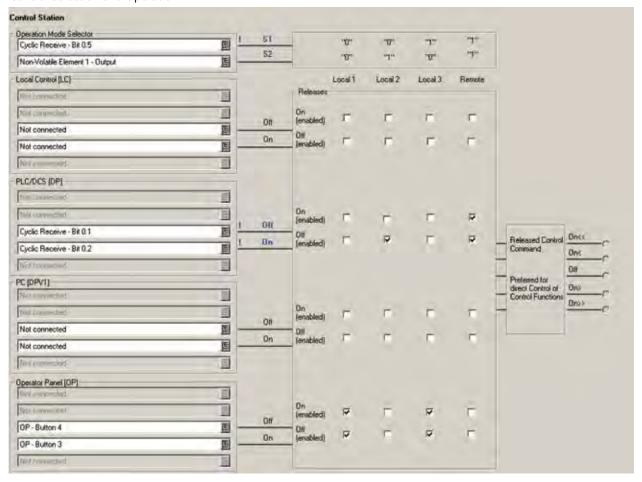
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB75

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

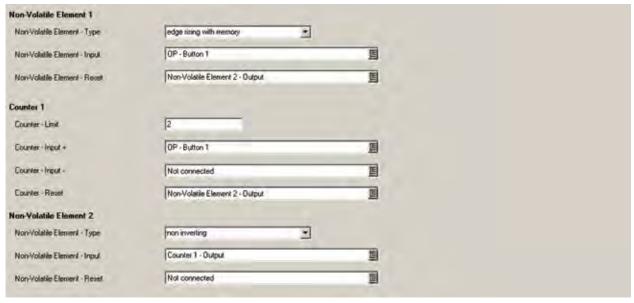


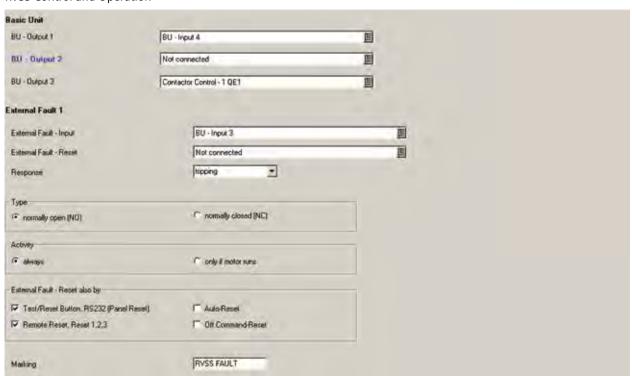
PB75

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation

Parameter Detail

AUTO Toggle Operation





9. 3RW40 Reduced Voltage Soft Starter with Input Isolation and Bypass Contactors

The reduced voltage soft starter uses an SCR equipped solid state controller to provide smooth, stepless acceleration by controlling the applied voltage, current, and torque to the motor terminals for single-speed, full-voltage operation. An input isolation contactor is integrated into the design to provide complete voltage removal to the motor windings. A bypass contactor is integrated into the design to provide selectable direct across the line, single-speed, single-direction, full-voltage operation.

The basic RVSS operation of this starter is as follows:

- 1. A local or remote RVSS start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 3 closes giving the RVSS a signal to begin operation.
- 3. The RVSS RUN contact closes relaying the SIMOCODE Pro to close Output 1 which energizes the coil of Input Isolation Contactor 3M.
- 4. With the Input Isolation Contactor 3M closed the RVSS follows its settings for ramp-up, run, and internal bypass.
- 5. A local or remote stop signal is given to the SIMOCODE Pro.
- 6. The SIMOCODE Pro Output 3 opens giving the RVSS a signal to stop operation.
- 7. The RVSS follows its settings for ramp-down opening the RVSS RUN contact when the designated time has elapsed.
- 8. With the RVSS RUN contact open the SIMOCODE Pro opens its Output 1 which de-energizes the coil of Input Isolation Contactor 3M.
- 9. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The basic BYPASS operation of this starter is as follows:

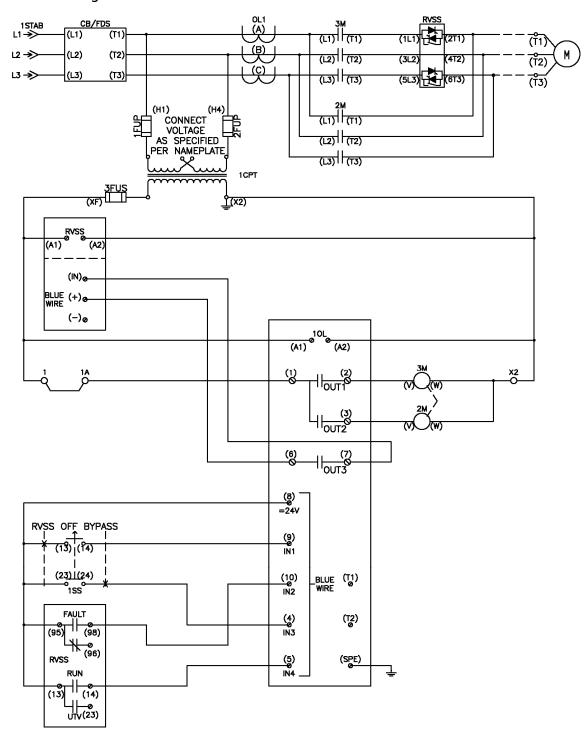
- 1. A local or remote BYPASS start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 2 closes which energizes the coil of Bypass Contactor 2M.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Output 2 opens which de-energizes the coil of Bypass Contactor 2M.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The RVSS auxiliary contacts are connected to the SIMOCODE Pro inputs to provide starter control as well as operation feedback over Profibus-DP.

- o The RVSS RUN contact provides direct control over the 3M input isolation contactor and starter condition feedback. When active the contact will signal the SIMOCODE Pro to close Output 1 to energize the 3M contactor coil. This contact will switch states during ramp-up, internal bypass, and ramp-down.
- o The RVSS FAULT contact provides starter condition feedback. When active, the contact will signal the SIMOCODE Pro to trigger an external fault command. This contact will change states during thyristor thermal overload, phase failure, no load voltage, mains under-voltage, mains over-voltage, or equipment error.

PB77

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass



PB77

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB77

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

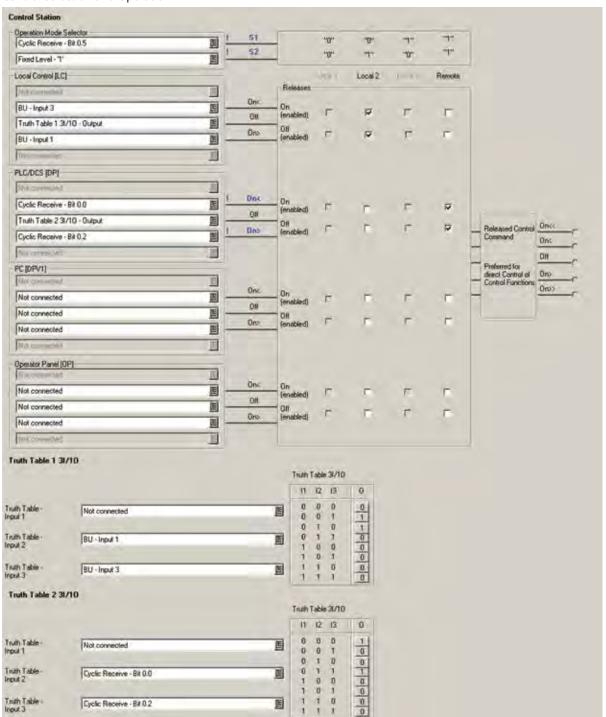
Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 2 will indicate RVSS Fault Status only.

PB77

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

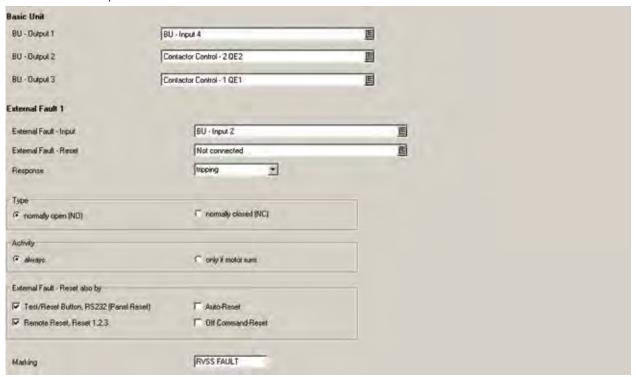
Parameter Detail



PB77

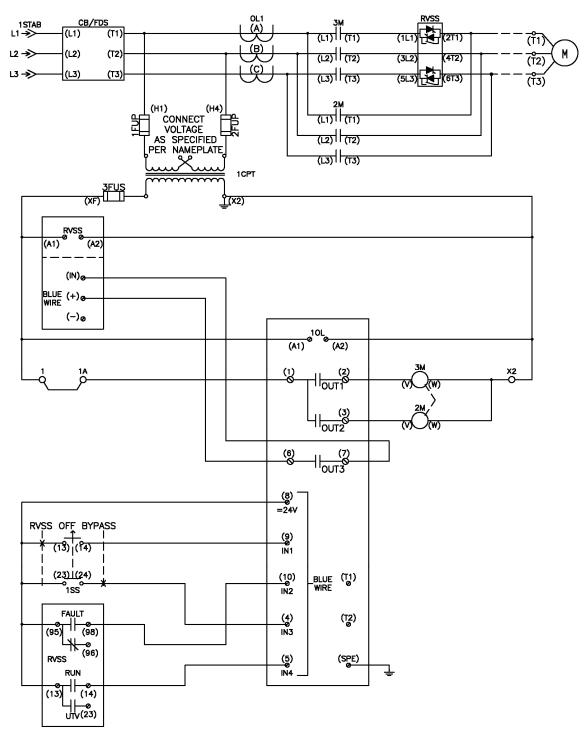
RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail



PB78

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass



PB78

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB78

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

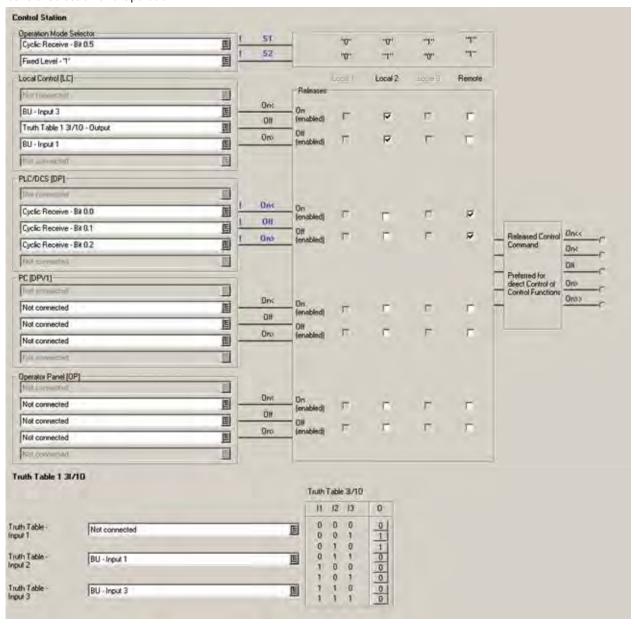
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 2 will indicate RVSS Fault Status only.

PB78

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

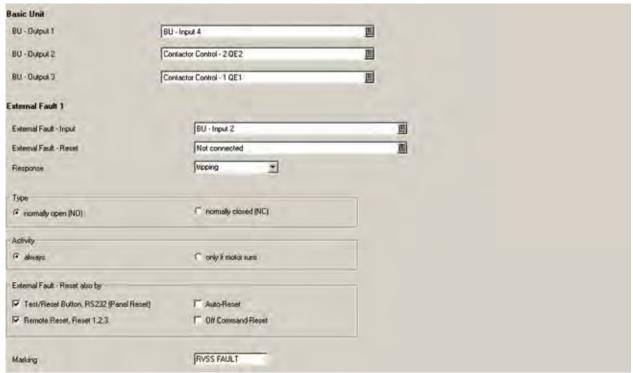


PB78

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

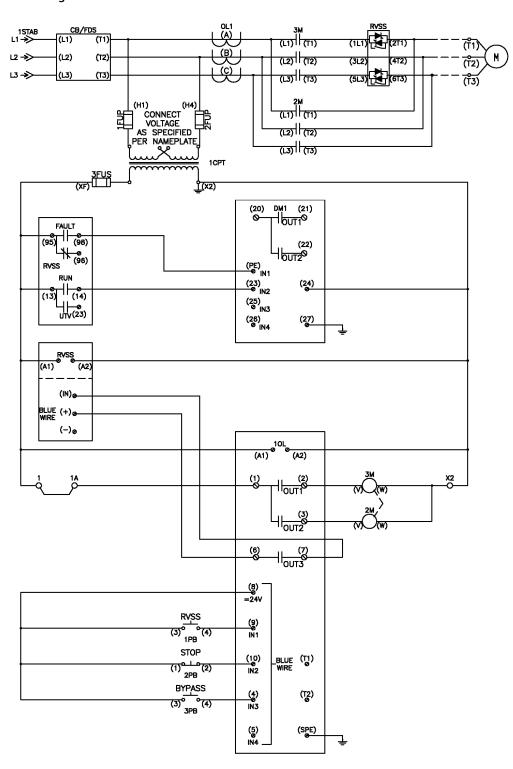
Parameter Detail

RVSS Control and Operation



PB79

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass Connection Diagram



PB79

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB79

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

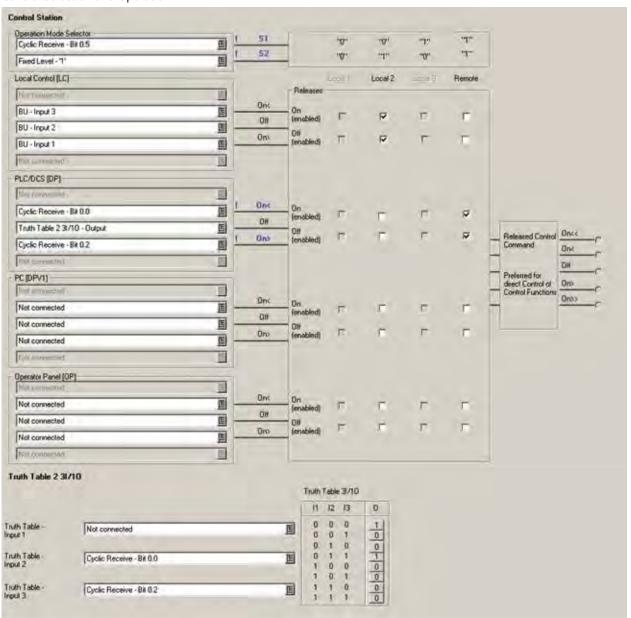
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.

PB79

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation



PB79

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

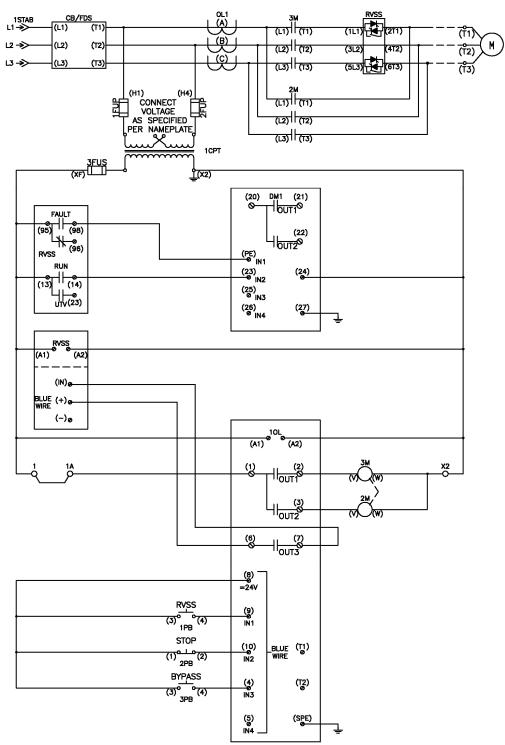
RVSS Control and Operation



PB80

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Connection Diagram



PB80

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB80

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

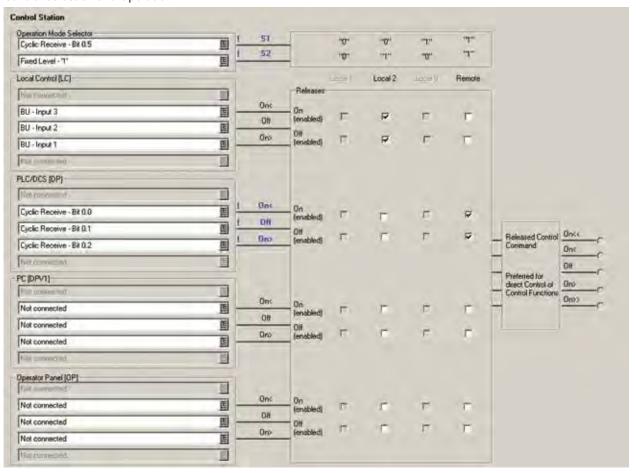
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.

PB80

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

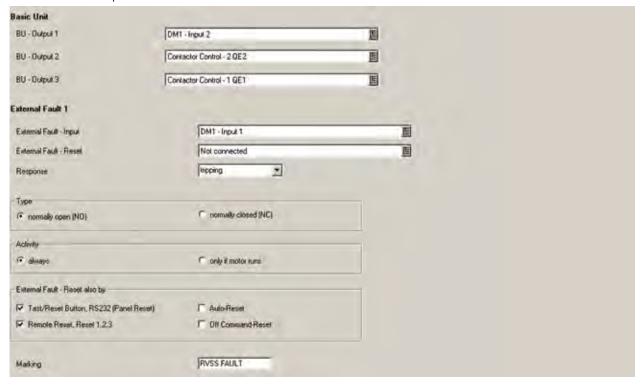


PB80

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

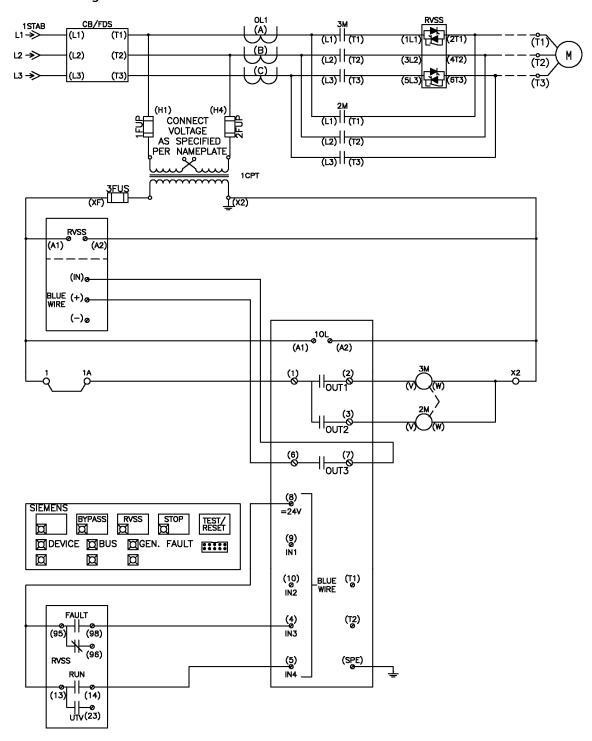
RVSS Control and Operation



PB81

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

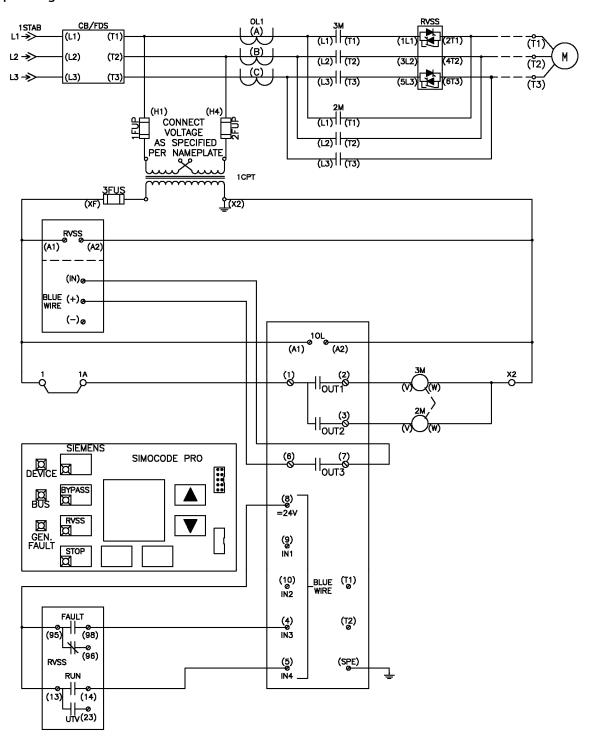
Connection Diagram



PB81

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions



PB81

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB81

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

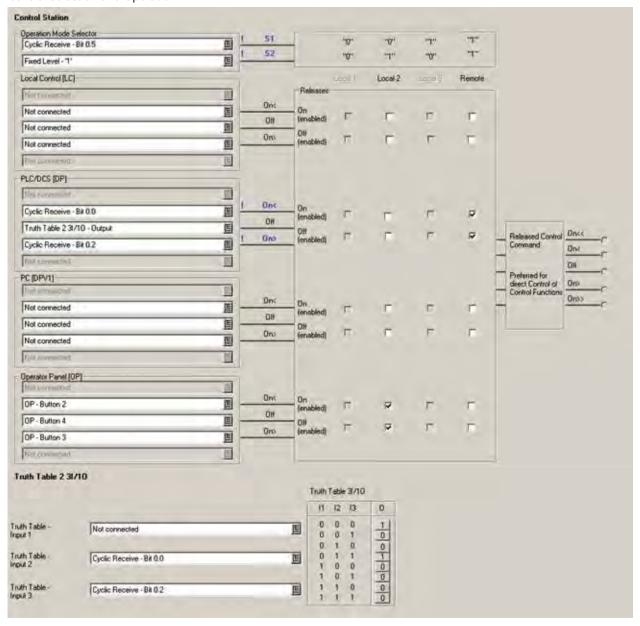
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB81

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

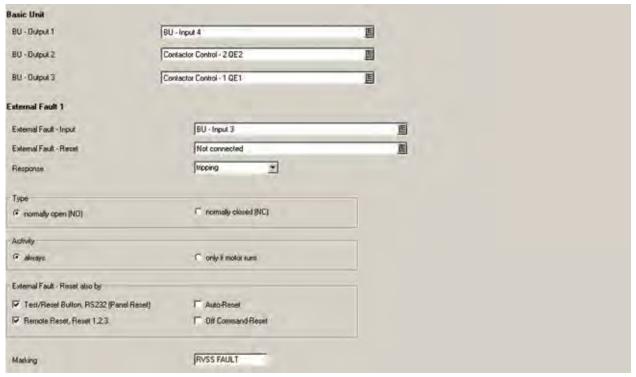


PB81

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

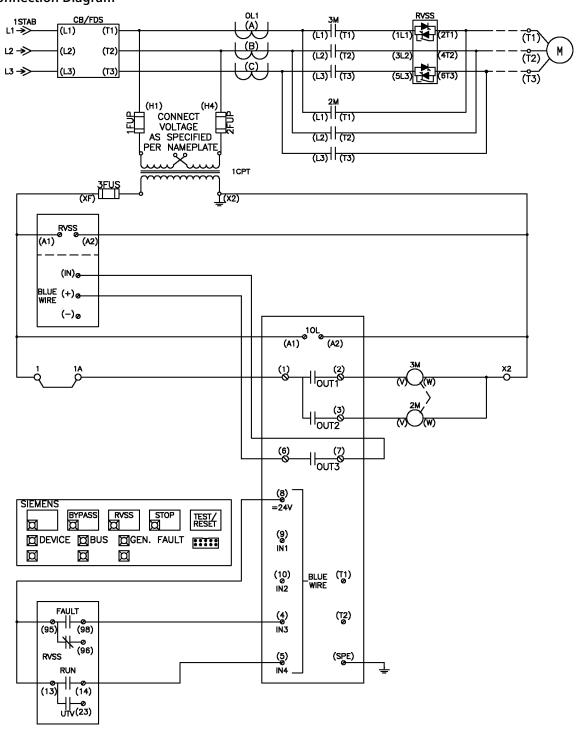
RVSS Control and Operation



PB82

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

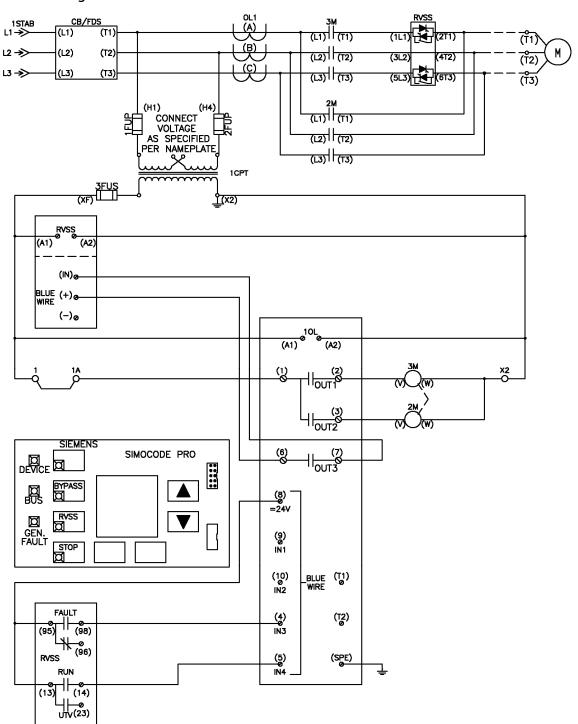
Connection Diagram



PB82

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Connection Diagram



PB82

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB82

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

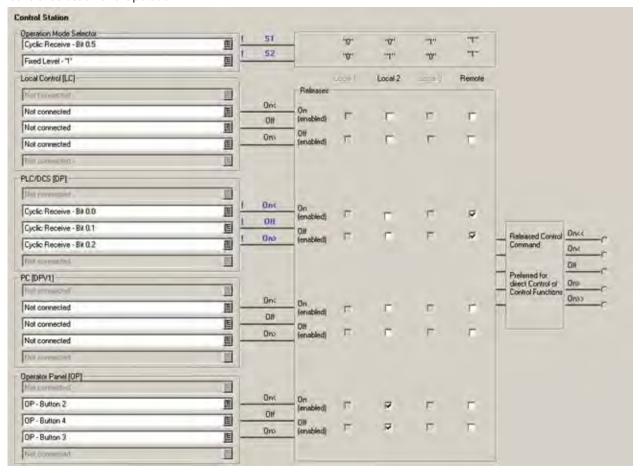
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB82

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

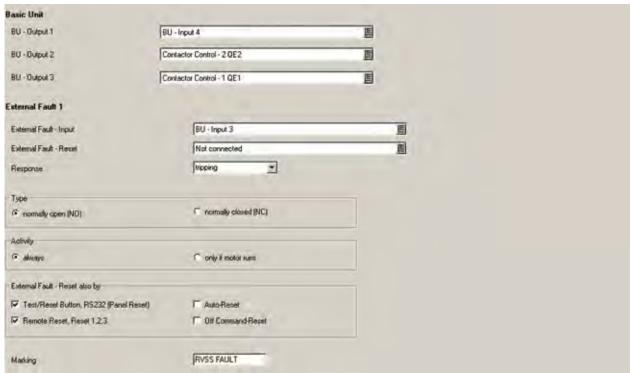


PB82

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

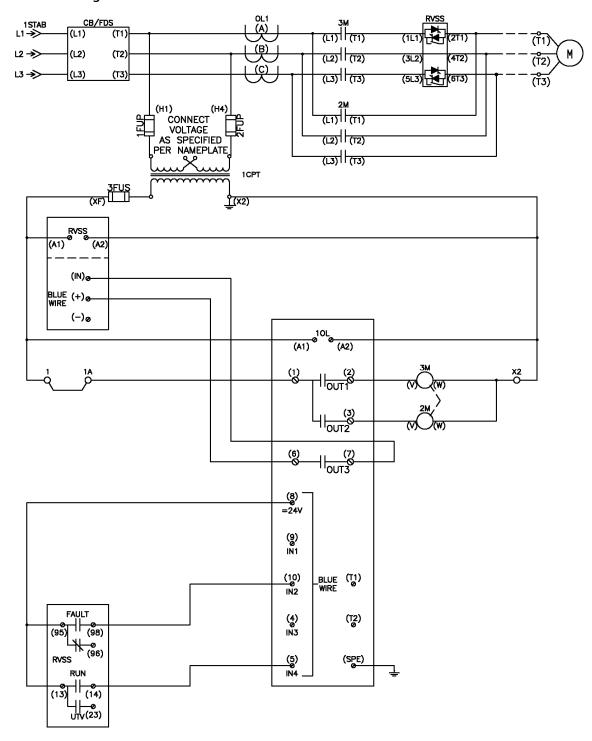
RVSS Control and Operation



PB83

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Connection Diagram



PB83

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the SIMOCODE Input 1 is activated. The ON > Control Command is then triggered causing the SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Input 4 is then activated causing the SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the SIMOCODE Input 3 is activated. The ON < Control Command is then triggered causing the SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the SIMOCODE Input 1 and the SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered causing the SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Input 4 is deactivated causing the SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Output 2 and SIMOCODE Output 3 will open.

PB83

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

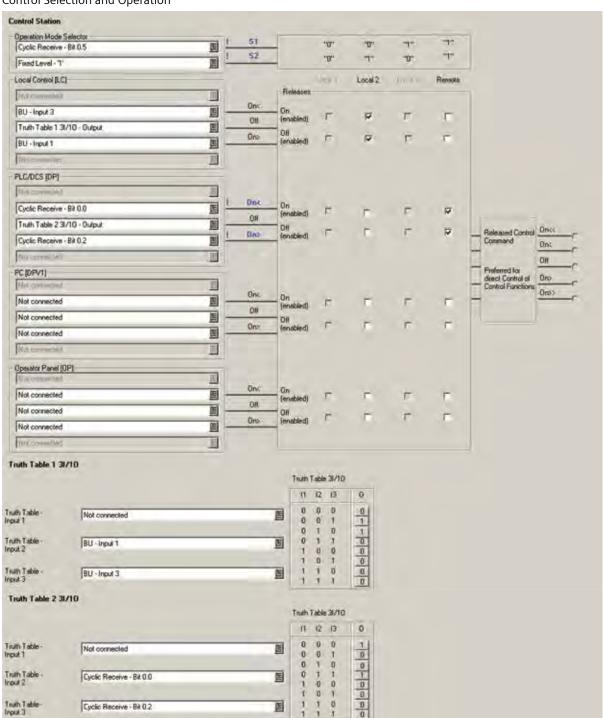
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 2 will indicate RVSS Fault Status only.

PB83

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation



PB83

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

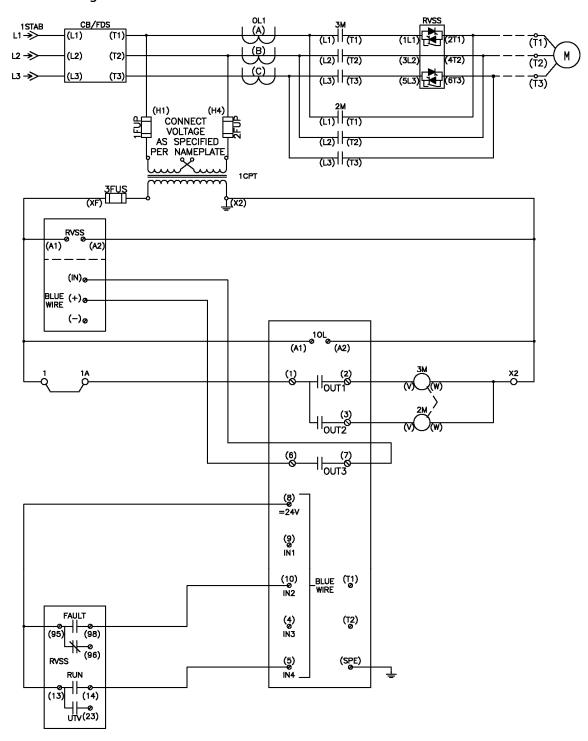
RVSS Control and Operation



PB84

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Connection Diagram



PB84

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor SIMOCODE Input 3 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB84

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS rampdown time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 2 will indicate RVSS Fault Status only.

PB84

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

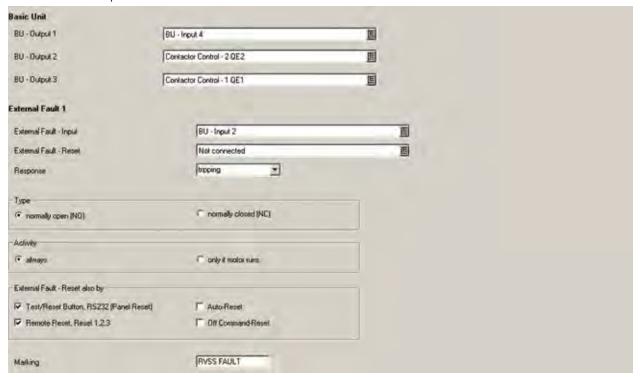


PB84

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

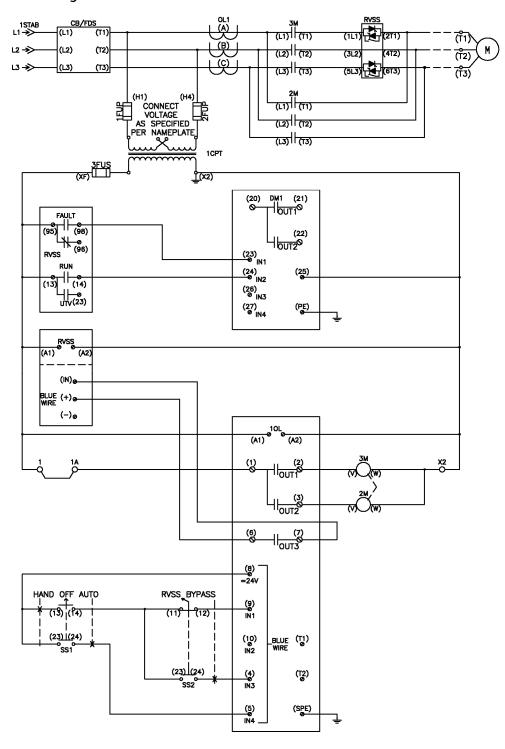
RVSS Control and Operation



PB85

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Connection Diagram



PB85

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Outputs 2 and 3 will open.

PB85

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

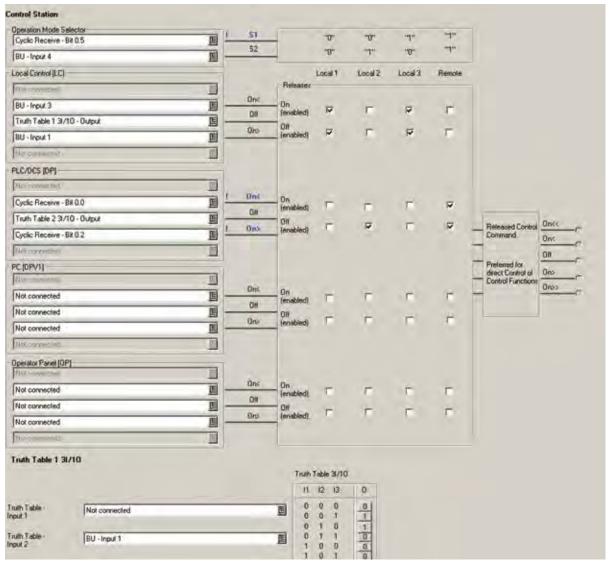
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.

PB85

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

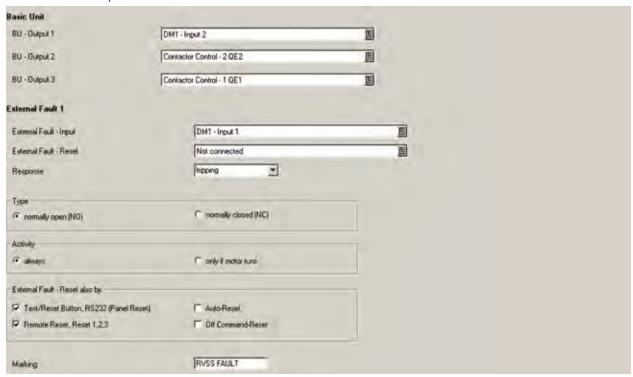


PB85

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

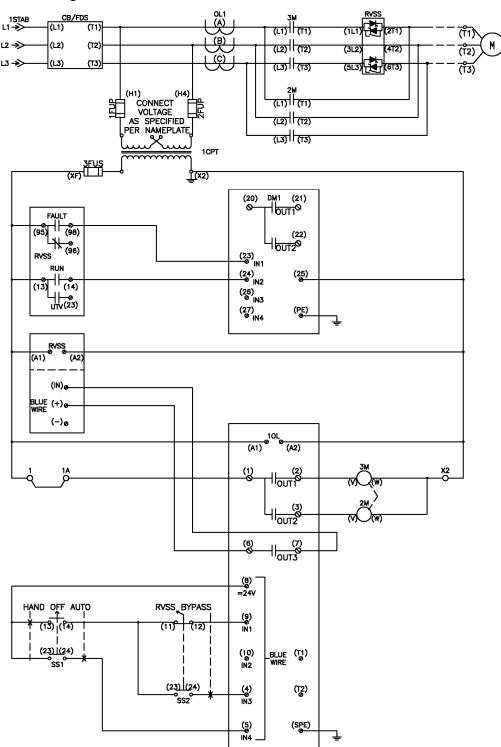
Parameter Detail

RVSS Control and Operation



PB86

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass



PB86

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

PB86

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

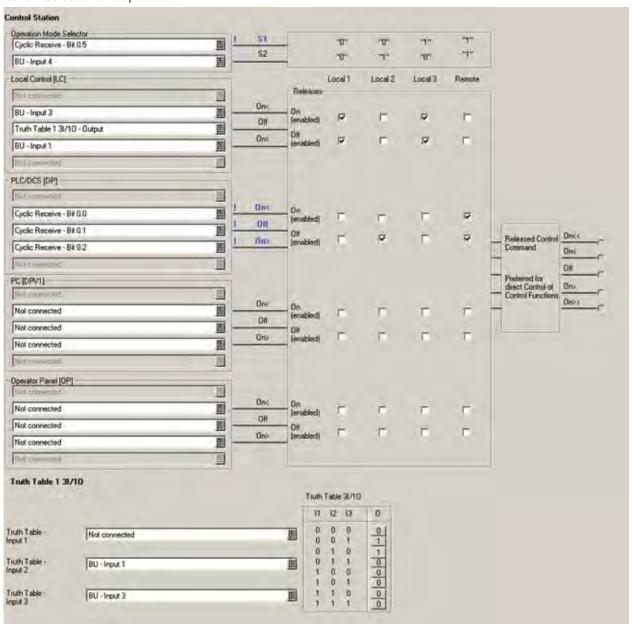
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.

PB86

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

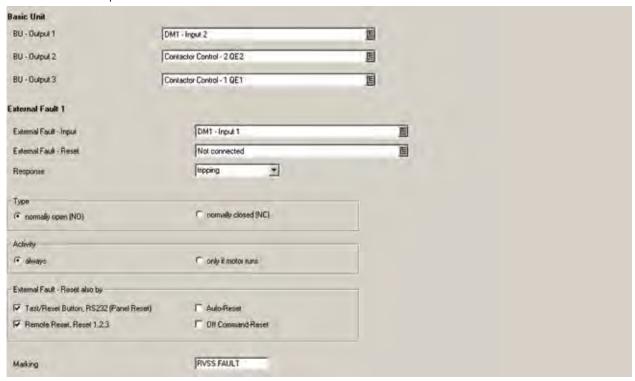


PB86

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

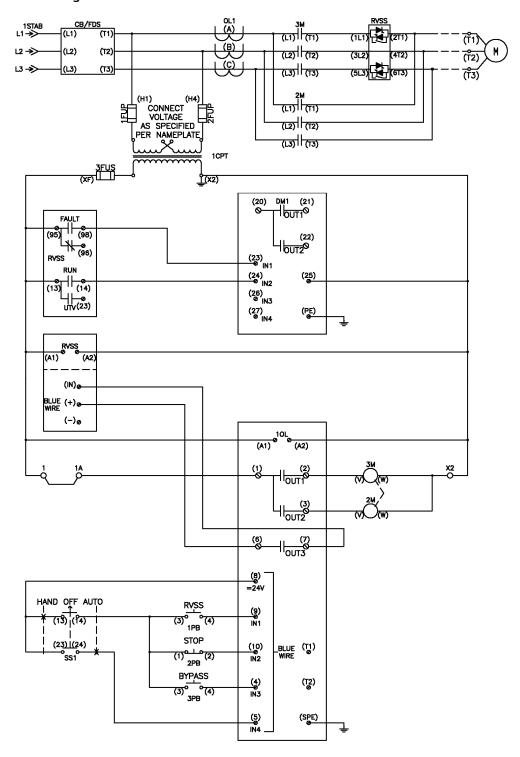
Parameter Detail

RVSS Control and Operation



PB87

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass



PB87

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB87

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

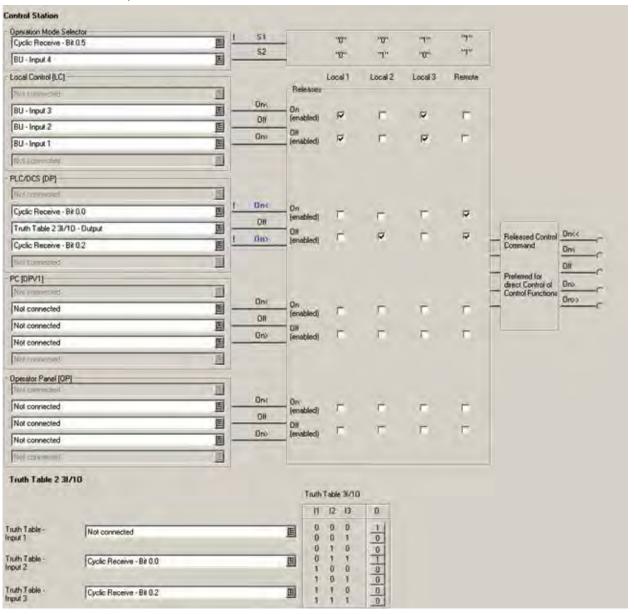
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB87

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

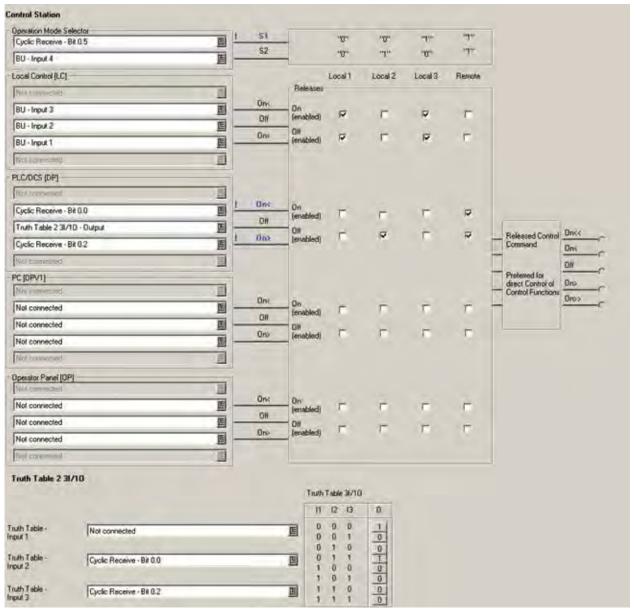


PB87

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

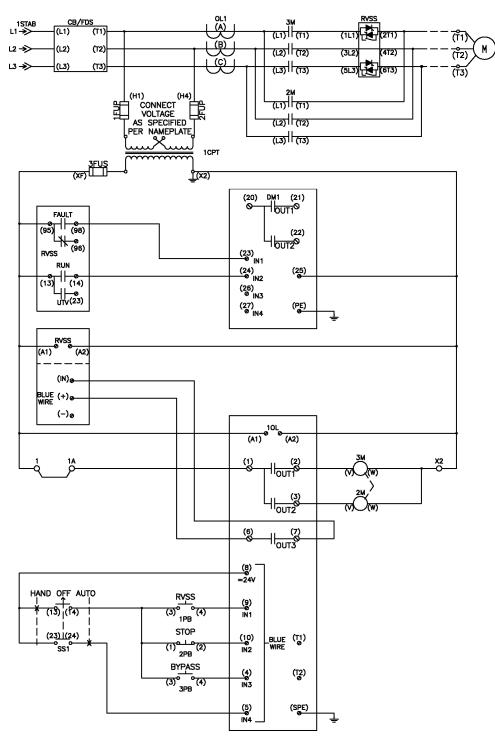
Parameter Detail

RVSS Control and Operation



PB88

RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass



PB88

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action the OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB88

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

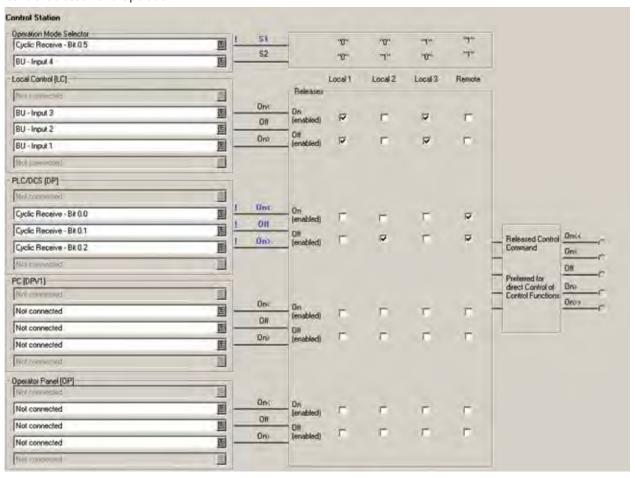
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB88

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

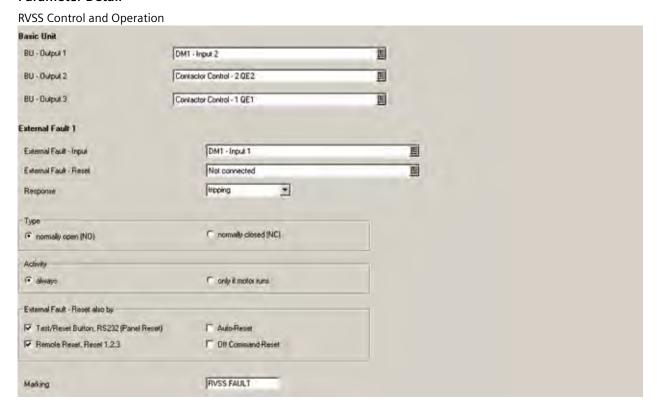
Control Selection and Operation



PB88

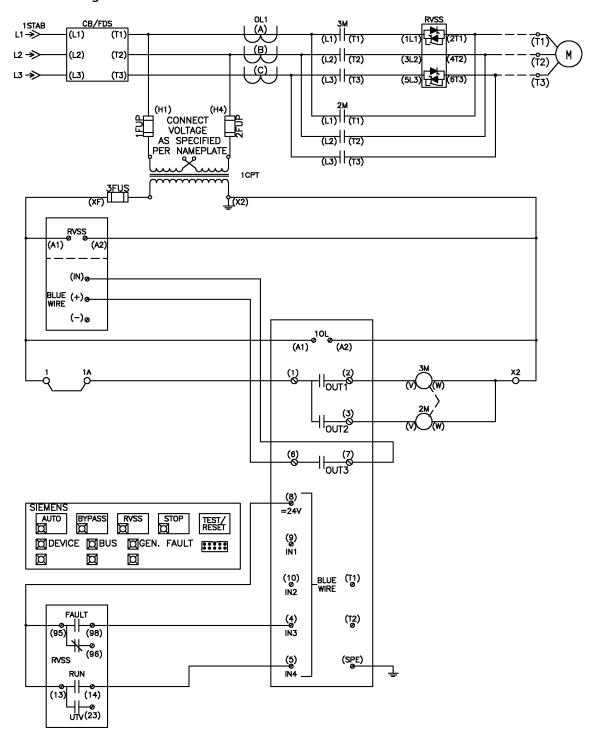
RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail



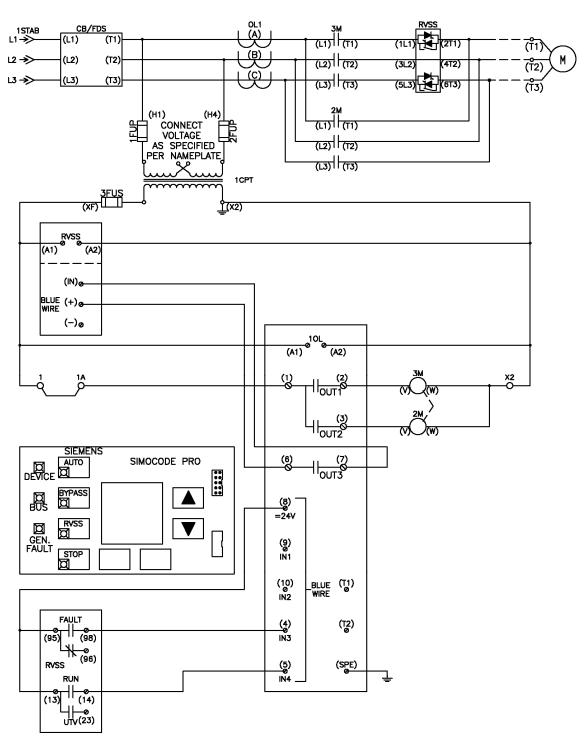
PB89

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire 3RW40 w/Input Isolation and Bypass



PB89

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 2-Wire 3RW40 w/Input Isolation and Bypass



PB89

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS Contactor the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB89

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

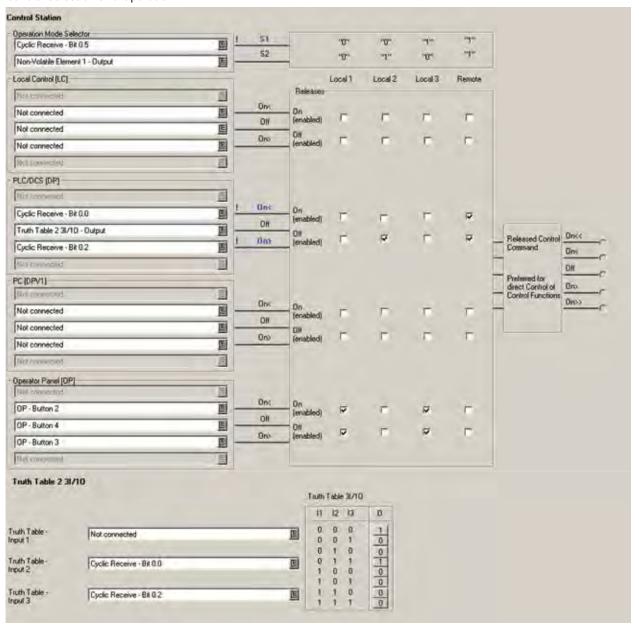
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB89

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation



PB89

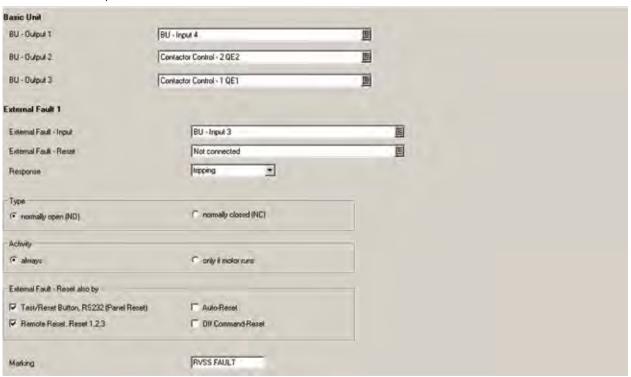
RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

AUTO Toggle Operation

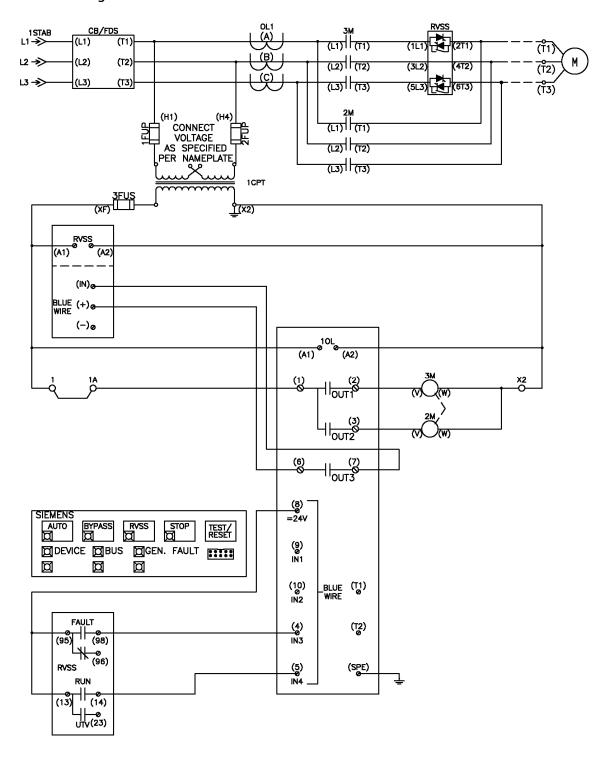


RVSS Control and Operation



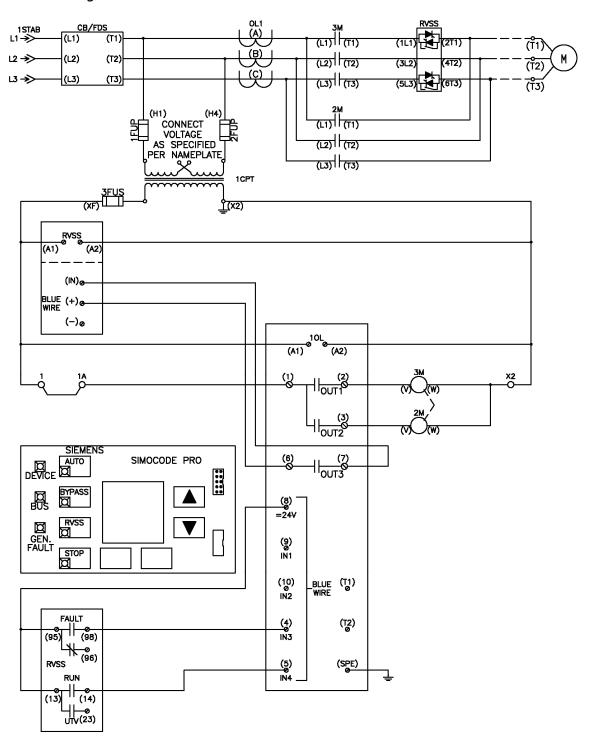
PB90

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW40 w/Input Isolation and Bypass



PB90

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW40 w/Input Isolation and Bypass



PB90

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS Contactor the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

PB90

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 3 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing SIMOCODE Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 2 and Output 3 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event the SIMOCODE Outputs 2 and 3 will open.

Reset Control

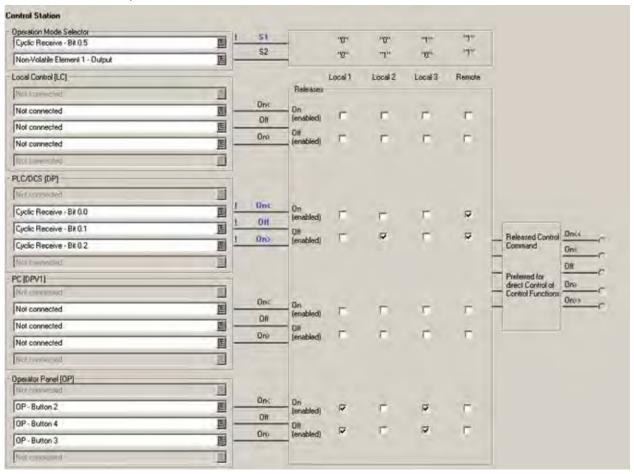
- 1. General Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. RVSS Fault conditions may be reset via the RESET button located on the unit enclosure door. SIMOCODE Input 3 will indicate RVSS Fault Status only.

PB90

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation



PB90

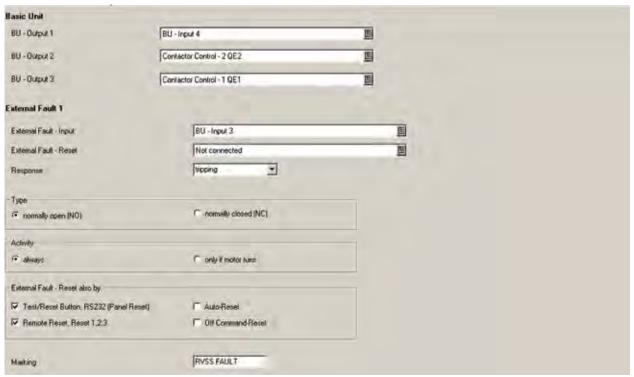
RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW40 w/Input Isolation and Bypass

Parameter Detail

AUTO Toggle Operation



RVSS Control and Operation



10. 3RW44 Reduced Voltage Soft Starter with Optional Input Isolation Contactor

The reduced voltage soft starter uses an SCR equipped solid state controller to provide smooth, stepless acceleration by controlling the applied voltage, current, and torque to the motor terminals for single-speed, full-voltage operation. An optional input isolation contactor is integrated into the design to provide complete voltage removal to the motor windings.

The basic RVSS operation of this starter is as follows:

- 1. A local or remote start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 1 closes giving the RVSS a signal to begin operation.
- 3. The RVSS RUN contact closes relaying the SIMOCODE Pro to close Output 3 which energizes the coil of Input Isolation Contactor 3M if equipped.
- 4. With 3-phase voltage applied the RVSS follows its settings for ramp-up, run, and internal bypass.
- 5. A local or remote stop signal is given to the SIMOCODE Pro.
- 6. The SIMOCODE Pro Output 1 opens giving the RVSS a signal to stop operation.
- 7. The RVSS follows its settings for ramp-down opening the RVSS RUN contact when the designated time has elapsed.
- 8. With the RVSS RUN contact open the SIMOCODE Pro opens its Output 3 which de-energizes the coil of Input Isolation Contactor 3M if equipped.
- 9. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

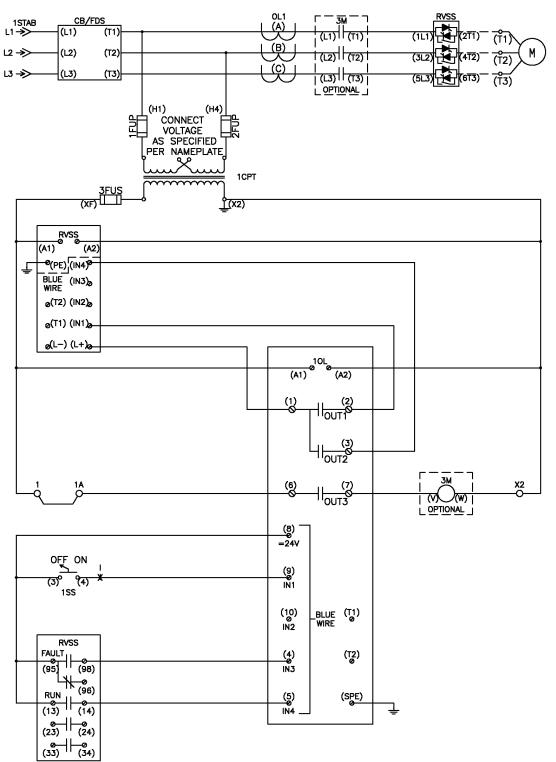
The RVSS auxiliary contacts are connected to the SIMOCODE Pro inputs to provide starter control as well as operation feedback over Profibus-DP.

- o The RVSS RUN contact provides direct control over the 3M input isolation contactor and starter condition feedback. When active the contact will signal the SIMOCODE Pro to close Output 3 to energize the 3M Isolation Contactor coil. This contact will switch states during ramp-up, internal bypass, and ramp-down.
- o The RVSS FAULT contact provides starter condition feedback. When active the contact will signal the SIMOCODE Pro to trigger an external fault command. This contact will switch states during thyristor thermal overload, phase failure, no load voltage, mains under-voltage, mains over-voltage, or equipment error.

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PB92

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB92

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Reset Control

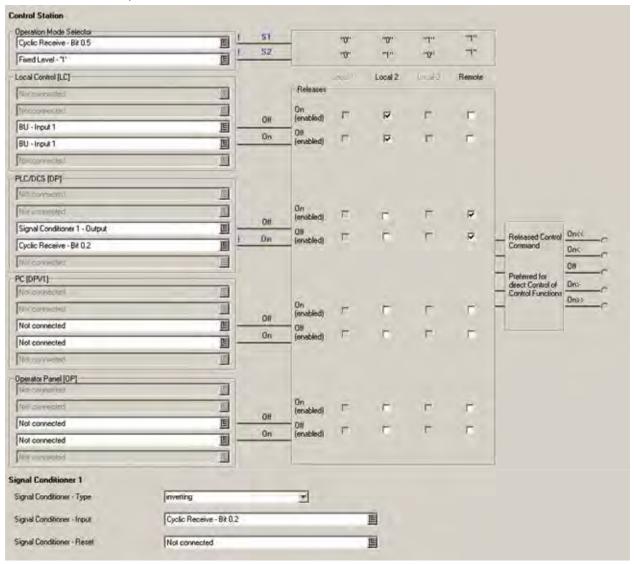
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB92

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

Control Selection and Operation

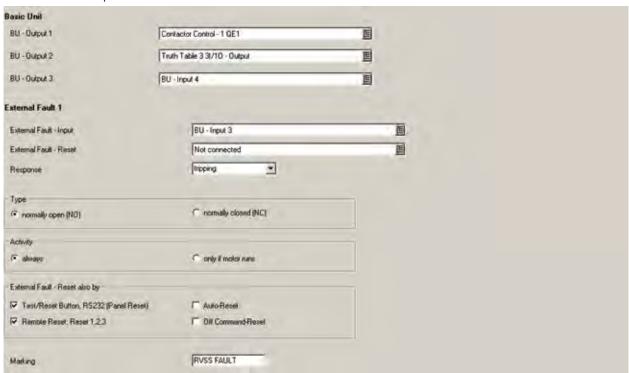


PB92

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation

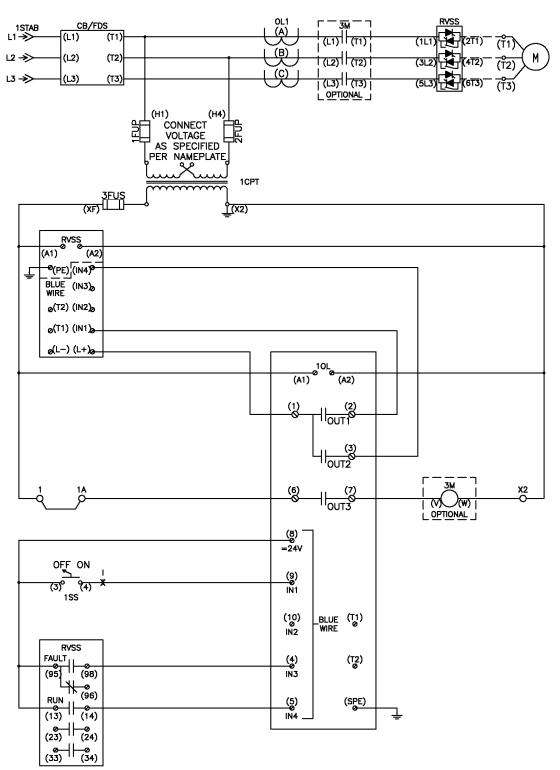
Parameter Detail

RVSS Control and Operation



PB93

RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB93

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the ON position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

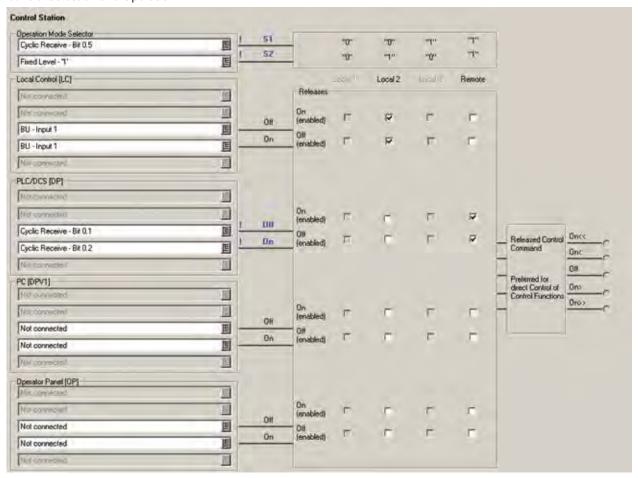
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB93

RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation

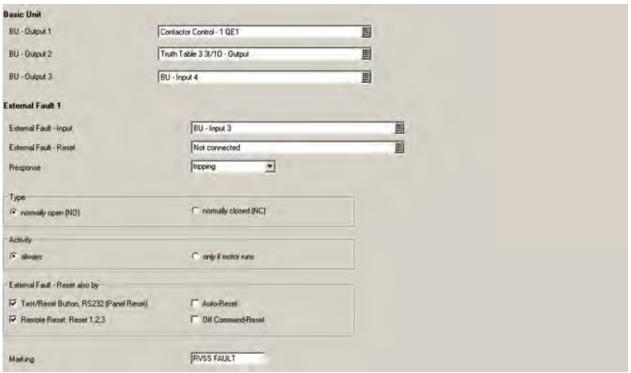
Parameter Detail



PB93

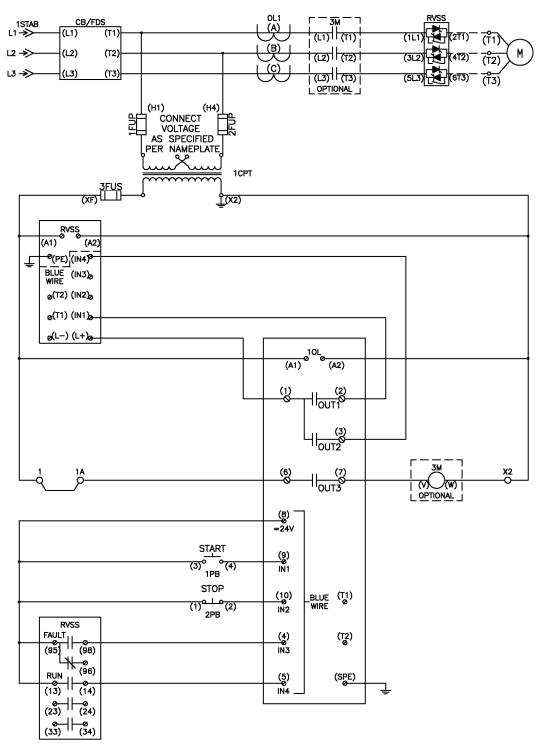
RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB94

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB94

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

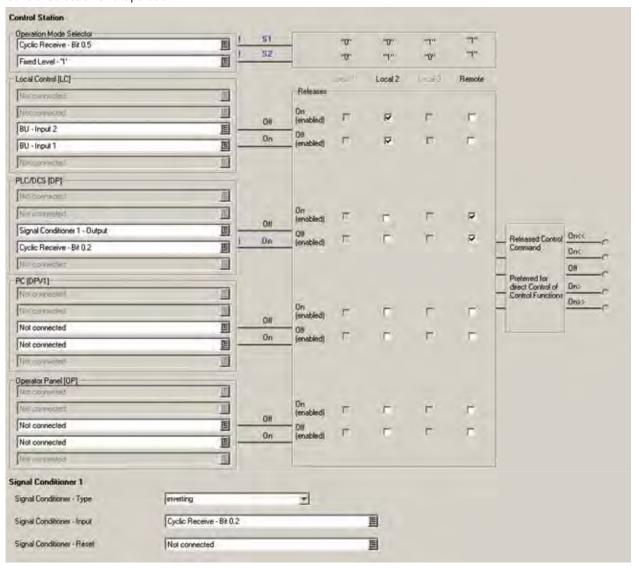
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB94

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

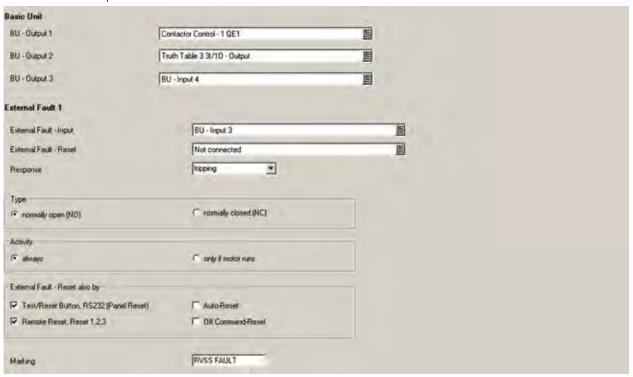
Parameter Detail



PB94

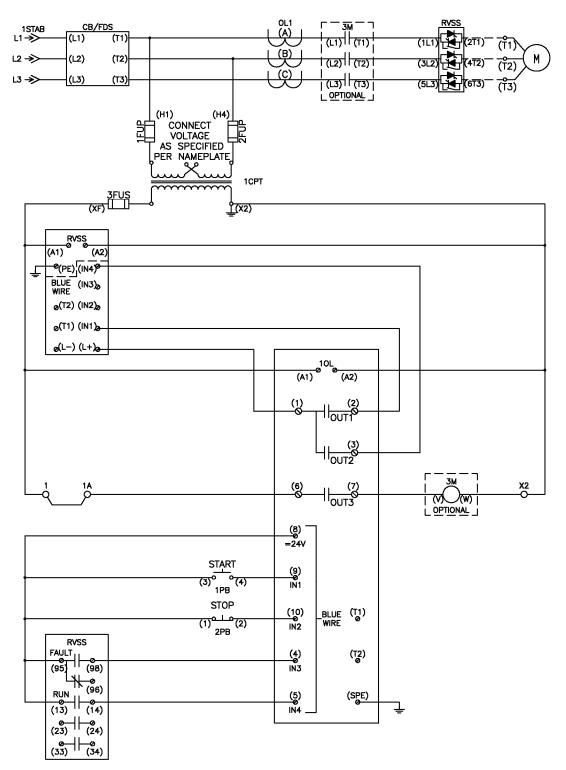
RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB95

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB95

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

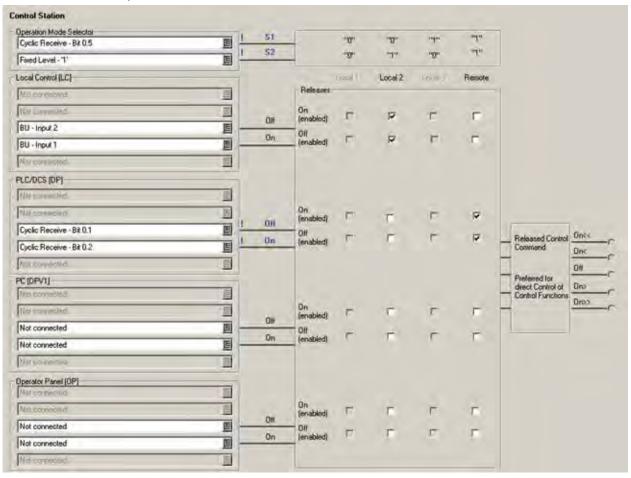
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB95

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/opt. Input Isolation

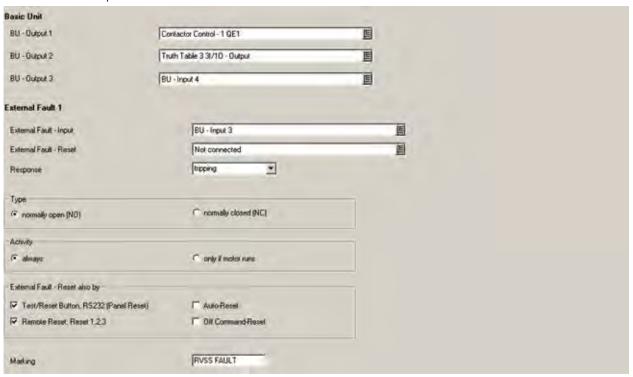
Parameter Detail



PB95

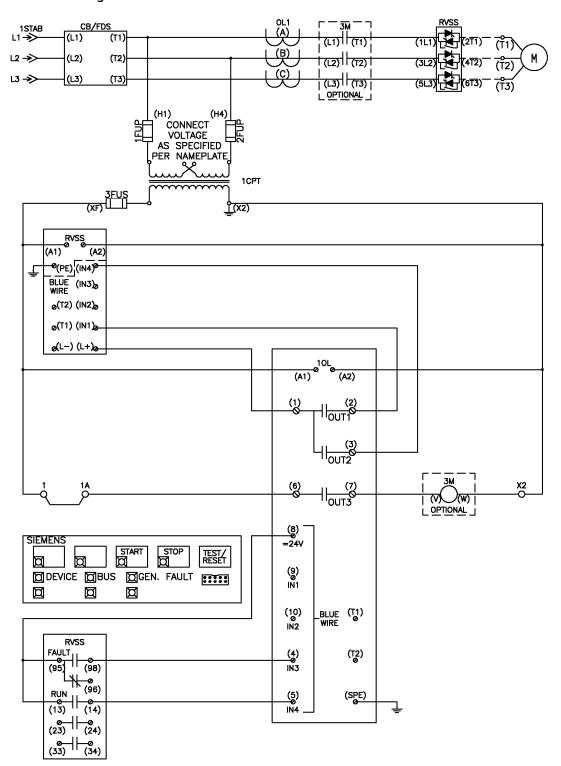
RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



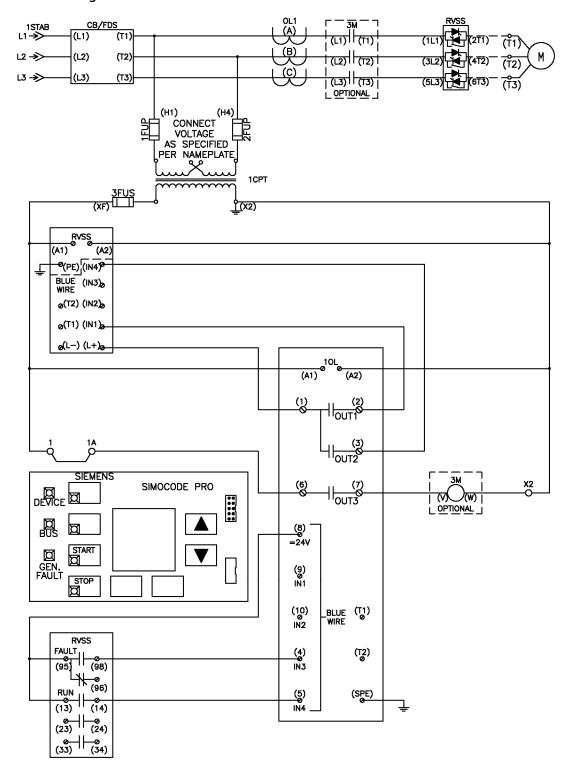
PB96

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB96

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OPD –Remote 2-Wire 3RW44 w/opt. Input Isolation



PB96

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

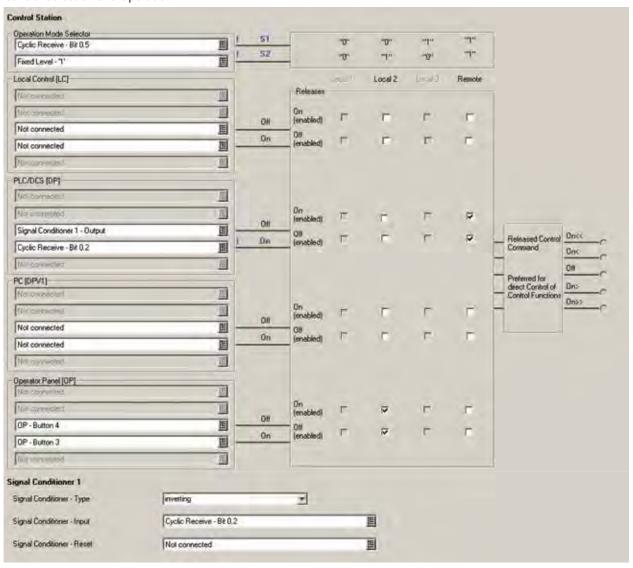
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB96

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/opt. Input Isolation

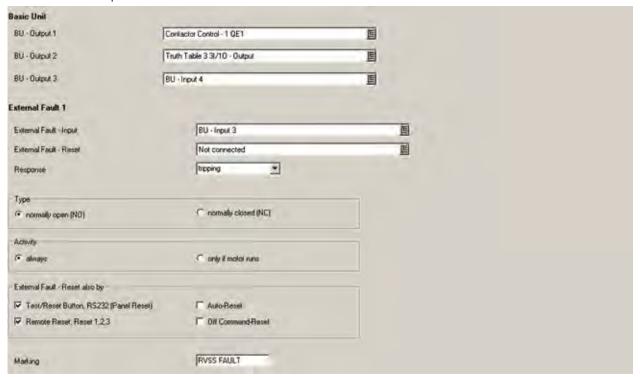
Parameter Detail



PB96

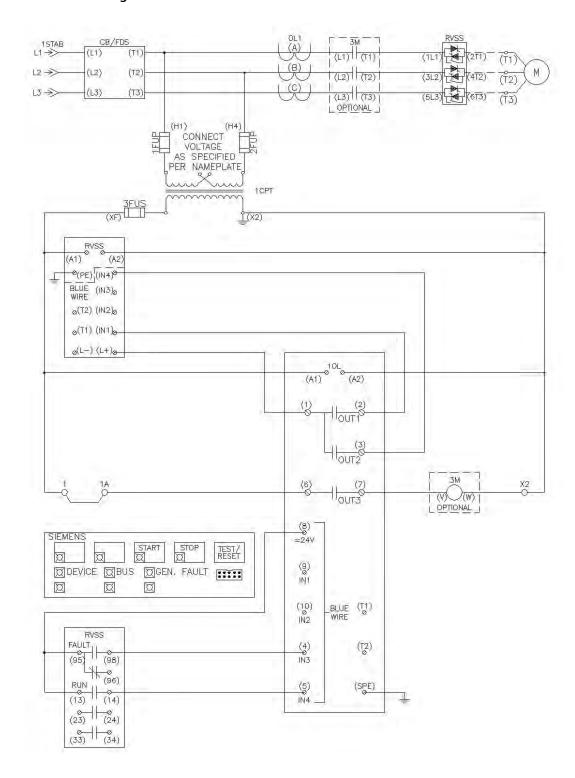
RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB97

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB97

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

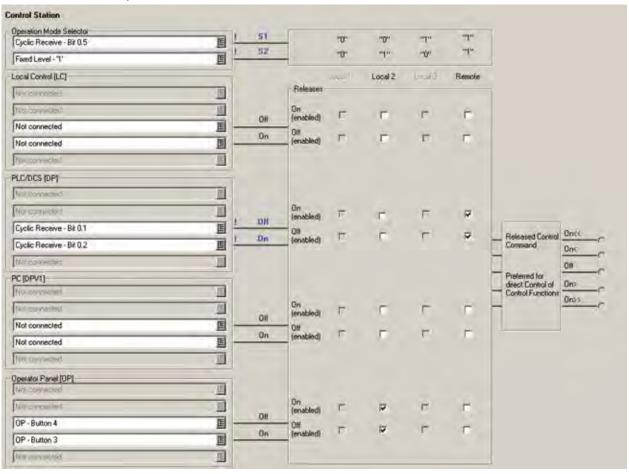
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB97

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation

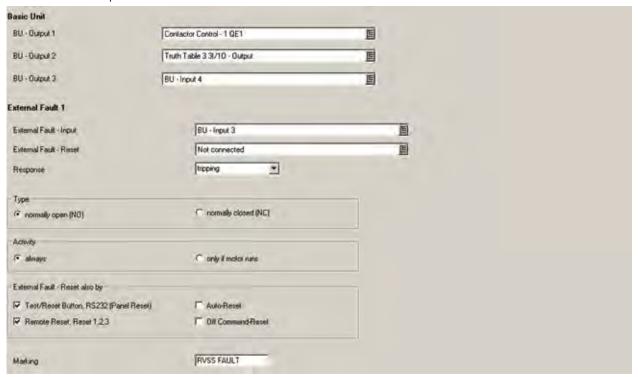
Parameter Detail



PB97

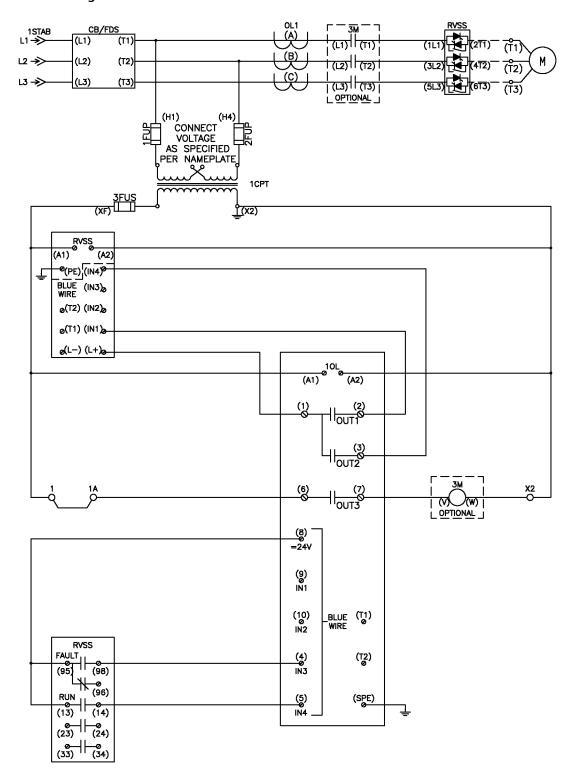
RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB98

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB98

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

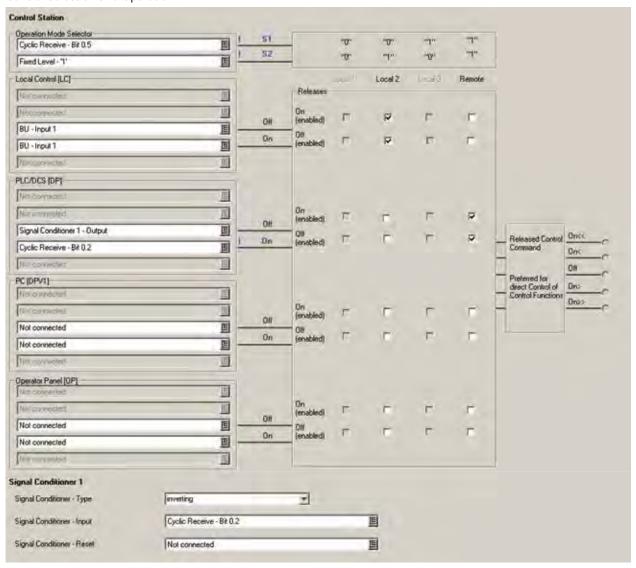
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB98

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/opt. Input Isolation

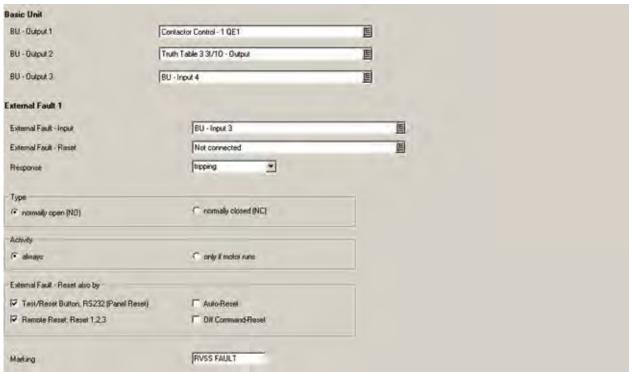
Parameter Detail



PB98

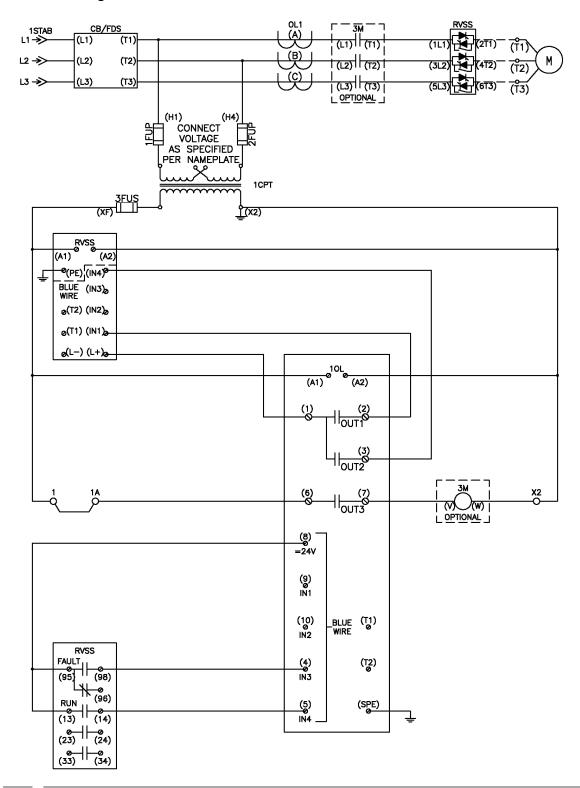
RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB99

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB99

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS SIMOCODE Input 1 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

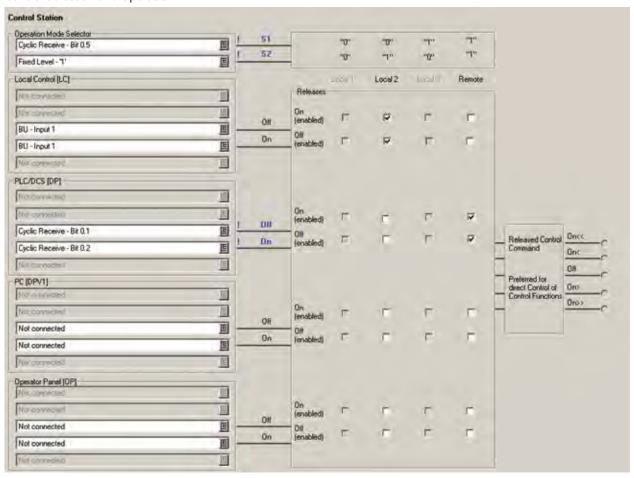
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB99

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/opt. Input Isolation

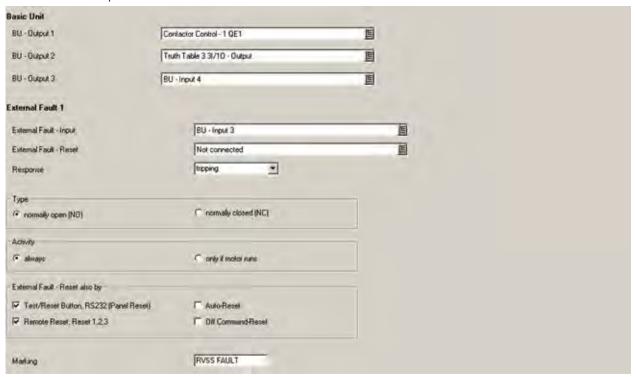
Parameter Detail



PB99

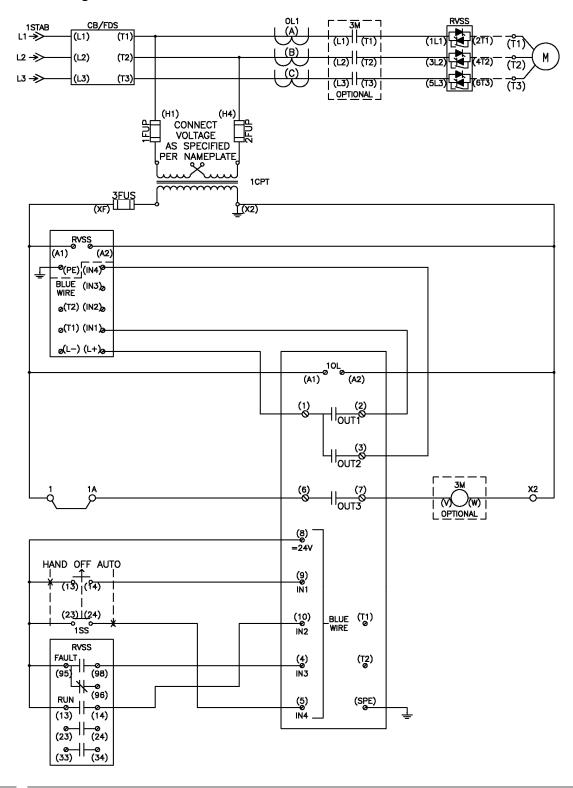
RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB100

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB100

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

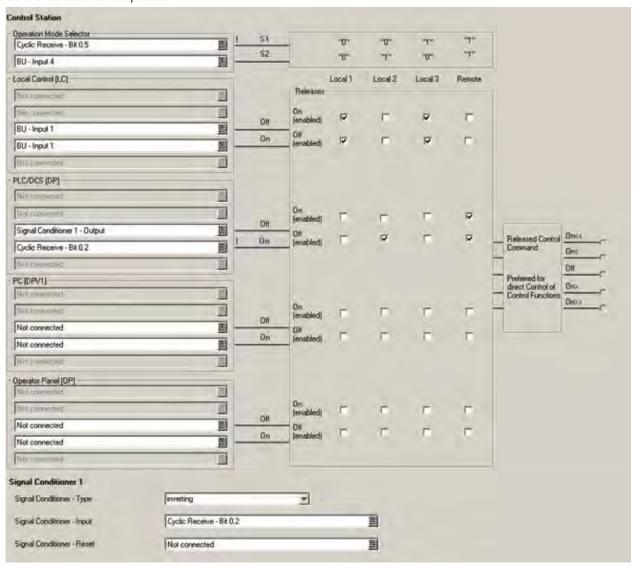
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB100

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/opt. Input Isolation

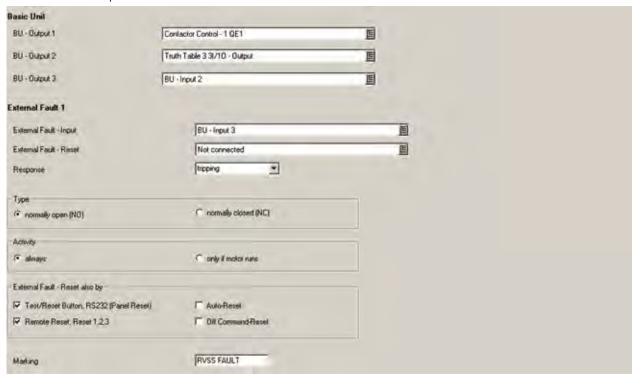
Parameter Detail



PB100

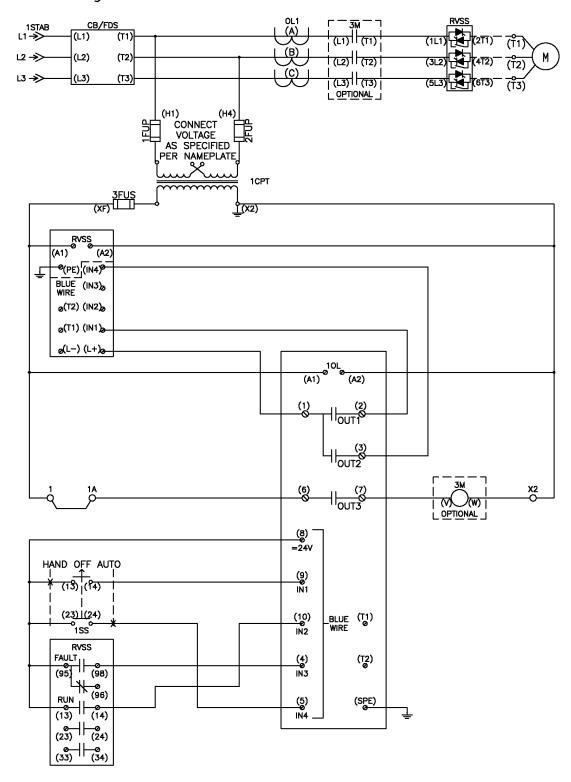
RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail



PB101

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB101

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

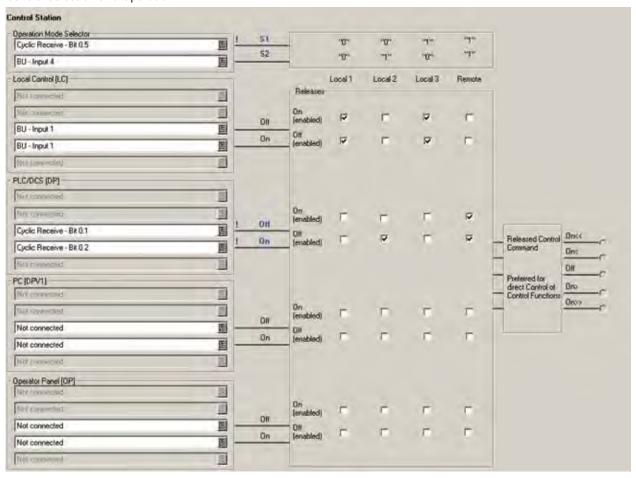
- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB101

RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

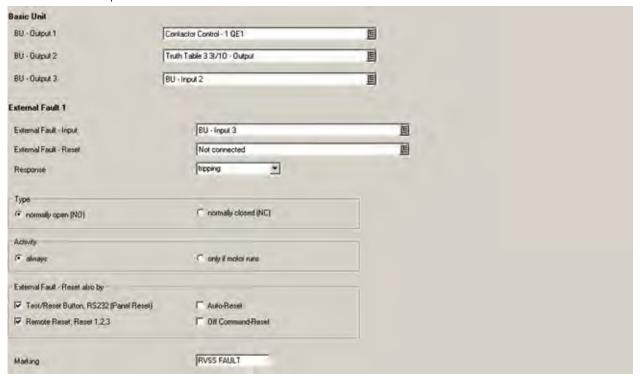


PB101

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS - Remote 3-Wire 3RW44 w/opt. Input Isolation

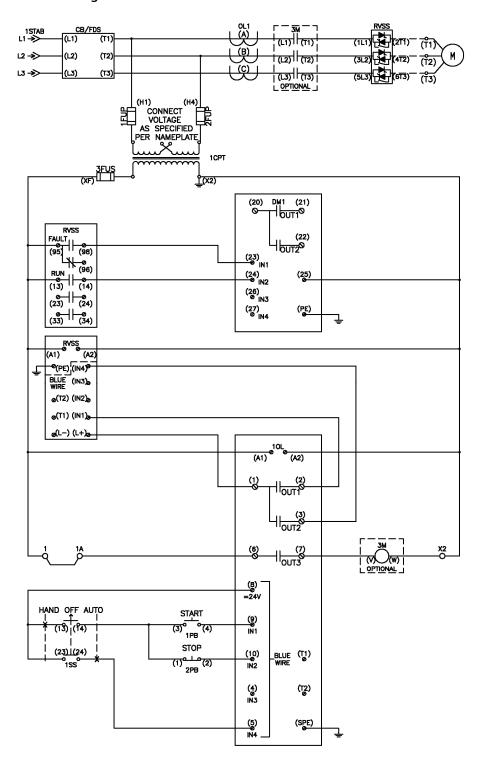
Parameter Detail

RVSS Control and Operation



PB102

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB102

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not I relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position and the Start Pushbutton depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action The OFF Control Command is then triggered, causing SIMOCODE Output 1 open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Reset Control

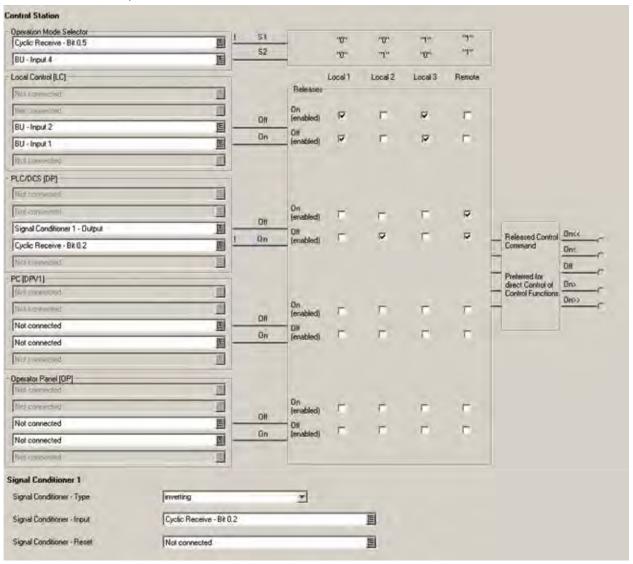
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB102

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

Control Selection and Operation

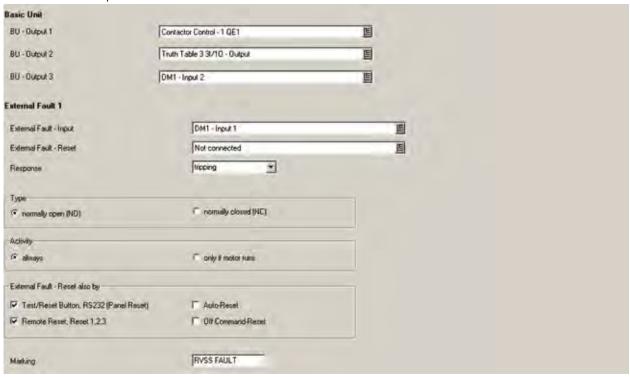


PB102

RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/opt. Input Isolation

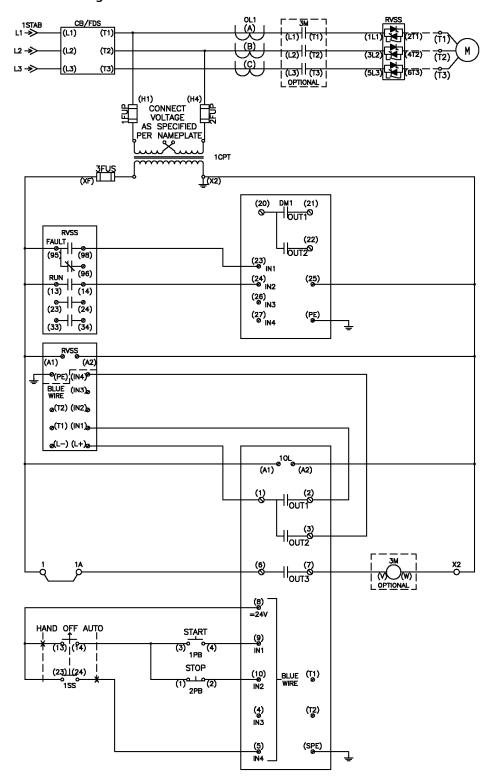
Parameter Detail

RVSS Control and Operation



PB103

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/opt. Input Isolation



PB103

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/opt. Input Isolations

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the Selector Switch is placed into the HAND position and the Start Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE z Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Reset Control

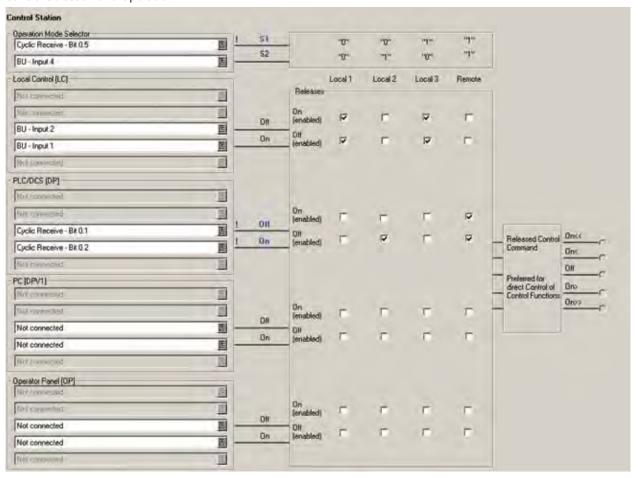
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

PB103

RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/opt. Input Isolations

Parameter Detail

Control Selection and Operation



PB103

RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB - Remote 3-Wire 3RW44 w/opt. Input Isolations

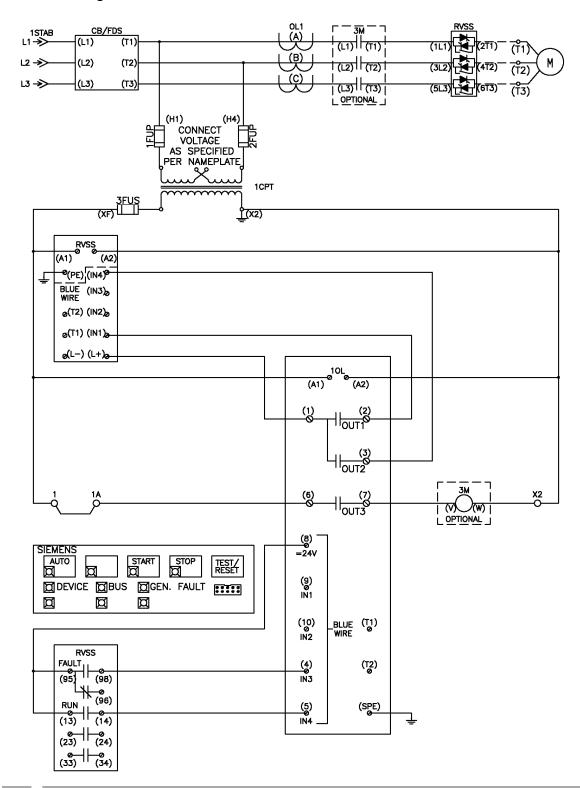
Parameter Detail

RVSS Control and Operation



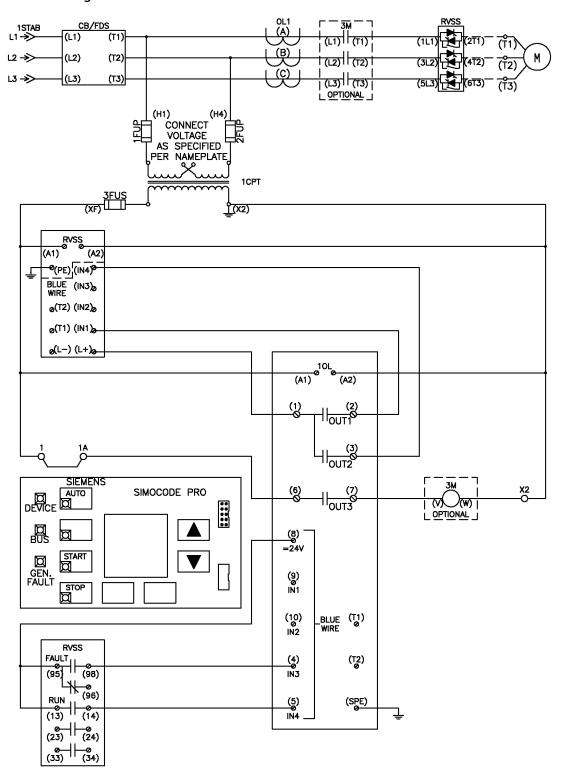
PB104

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB104

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 2-Wire 3RW44 w/opt. Input Isolation



PB104

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

PB104

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Signal Conditioner 1 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Profibus Cyclic Receive Bit 0.2 is connected to the Signal Conditioner 1 Input for inversion.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.2 is deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Reset Control

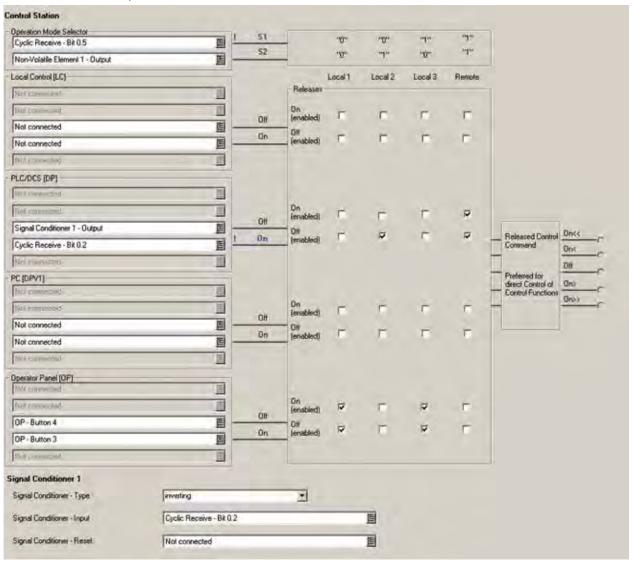
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

Control Selection and Operation

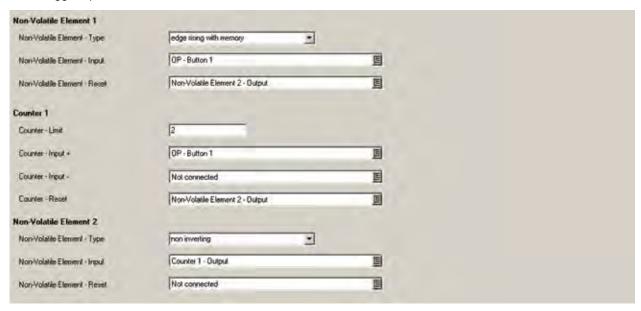


PB104

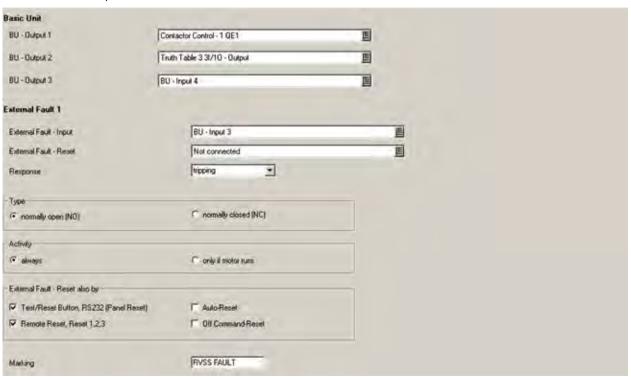
RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 2-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

AUTO Toggle Operation

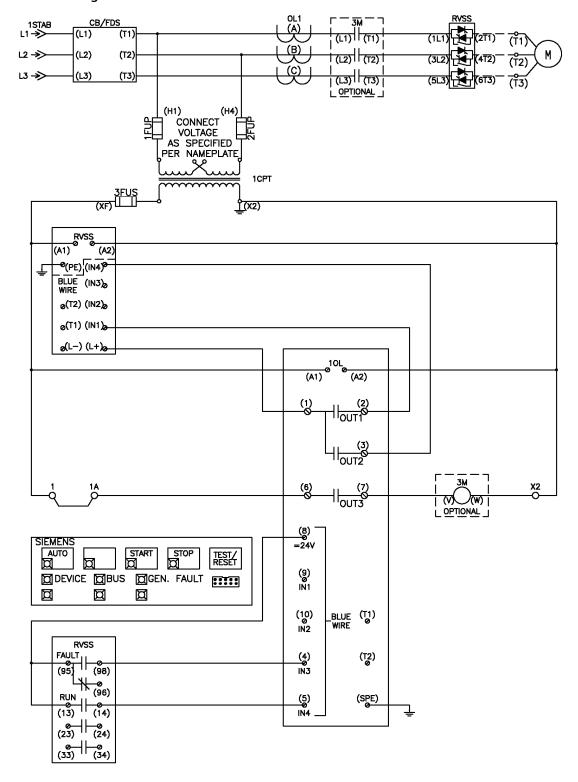


RVSS Control and Operation



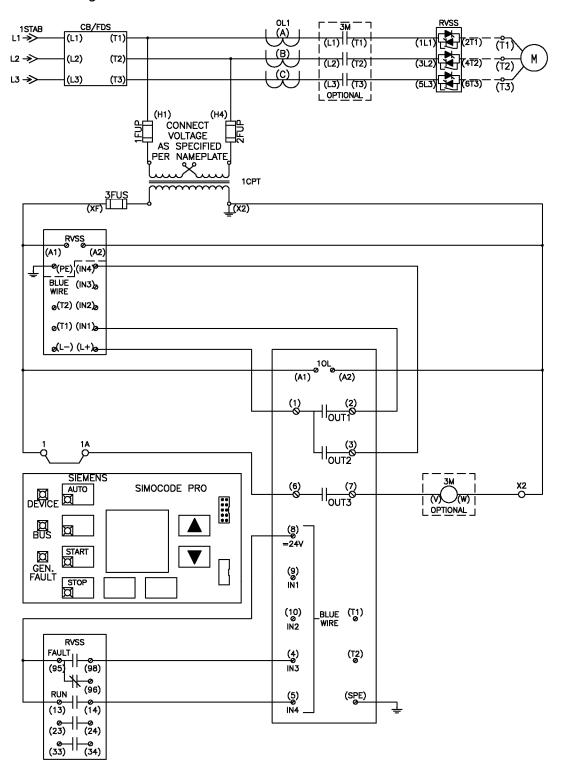
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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW44 w/opt. Input Isolation



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RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OPD – Remote 3-Wire 3RW44 w/opt. Input Isolation



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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (START) is connected to the ON > Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP Start Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time.
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the optional 3M Isolation Contactor the RVSS closes the associated internal RUN contact. SIMOCODE Input 4 is then activated, causing SIMOCODE Output 3 to close.
- 4. To disengage the RVSS the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 to open.
- 5. To disengage the optional 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. SIMOCODE Input 4 is deactivated, causing SIMOCODE Output 3 to open. (RVSS Ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 6. In the event of an Overload or any other General Fault event SIMOCODE Output 1 will open.

Remote Control

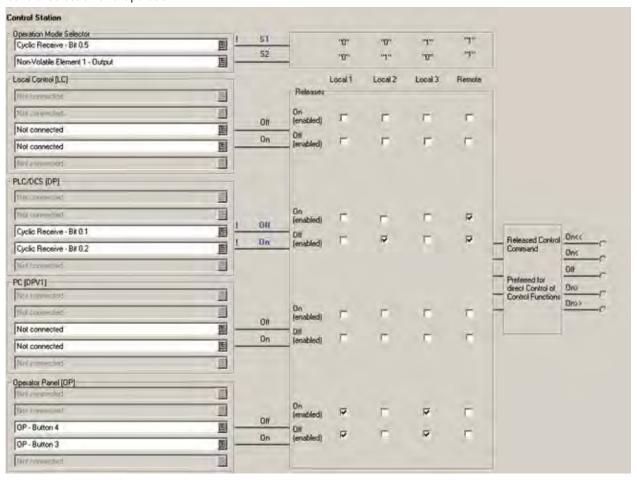
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Input 3 will indicate RVSS Fault status only.
- 3. RVSS Hardware Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

Control Selection and Operation

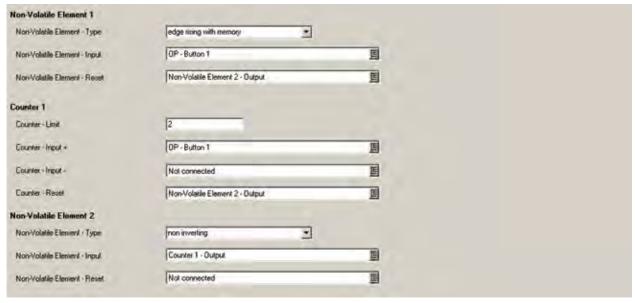


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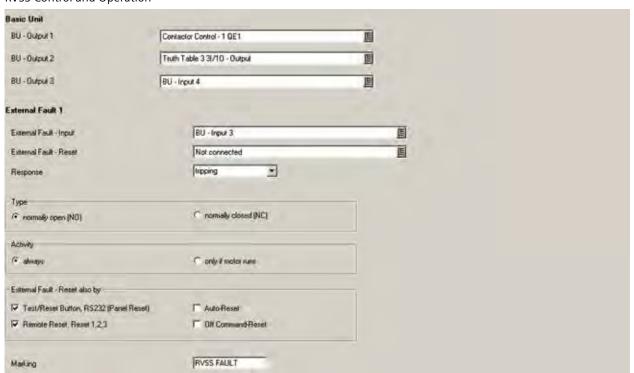
RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP (OPD) - Remote 3-Wire 3RW44 w/opt. Input Isolation

Parameter Detail

AUTO Toggle Operation



RVSS Control and Operation



11. 3RW44 Reduced Voltage Soft Starter with Input Isolation and Bypass Contactors

The reduced voltage soft starter uses an SCR equipped solid state controller to provide smooth, stepless acceleration by controlling the applied voltage, current, and torque to the motor terminals for single-speed, full-voltage operation. An input isolation contactor is integrated into the design to provide complete voltage removal to the motor windings. A bypass contactor is integrated into the design to provide selectable direct across the line, single-speed, single-direction, full-voltage operation.

The basic RVSS operation of this starter is as follows:

- 1. A local or remote RVSS start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Output 1 closes giving the RVSS a signal to begin operation.
- 3. The RVSS RUN contact closes relaying the SIMOCODE Pro to close Digital Module Output 1 which energizes the coil of Input Isolation Contactor 3M.
- 4. With the Input Isolation Contactor 3M closed the RVSS follows its settings for ramp-up, run, and internal bypass.
- 5. A local or remote stop signal is given to the SIMOCODE Pro.
- 6. The SIMOCODE Pro Output 1 opens giving the RVSS a signal to stop operation.
- 7. The RVSS follows its settings for ramp-down opening the RVSS RUN contact when the designated time has elapsed.
- 8. With the RVSS RUN contact open the SIMOCODE Pro opens its Digital Module Output 1 which deenergizes the coil of Input Isolation Contactor 3M.
- 9. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

The basic BYPASS operation of this starter is as follows:

- 1. A local or remote BYPASS start signal is given to the SIMOCODE Pro.
- 2. The SIMOCODE Pro Digital Module Output 2 closes which energizes the coil of Bypass Contactor 2M.
- 3. A local or remote stop signal is given to the SIMOCODE Pro.
- 4. The SIMOCODE Pro Digital Module Output 2 opens which de-energizes the coil of Bypass Contactor 2M.
- 5. If a fault occurs at any time the SIMOCODE Pro will end the starter operation.

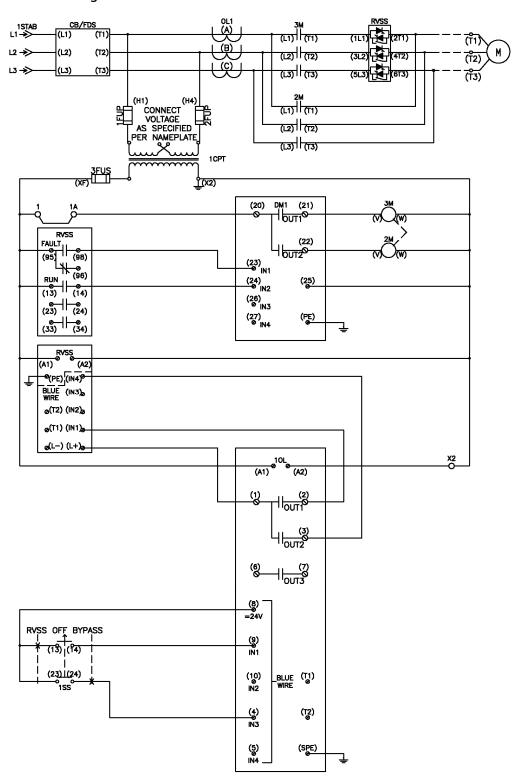
The RVSS auxiliary contacts are connected to the SIMOCODE Pro inputs to provide starter control as well as operation feedback over Profibus-DP.

- o The RVSS RUN contact provides direct control over the 3M input isolation contactor and starter condition feedback. When active the contact will signal the SIMOCODE Pro to close Digital Module Output 1 to energize the 3M contactor coil. This contact will switch states during ramp-up, internal bypass, and rampdown.
- o The RVSS FAULT contact provides starter condition feedback. When active the contact will signal the SIMOCODE Pro to trigger an external fault command. This contact will switch states during thyristor thermal overload, phase failure, no load voltage, mains under-voltage, mains over-voltage, or equipment error.

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RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

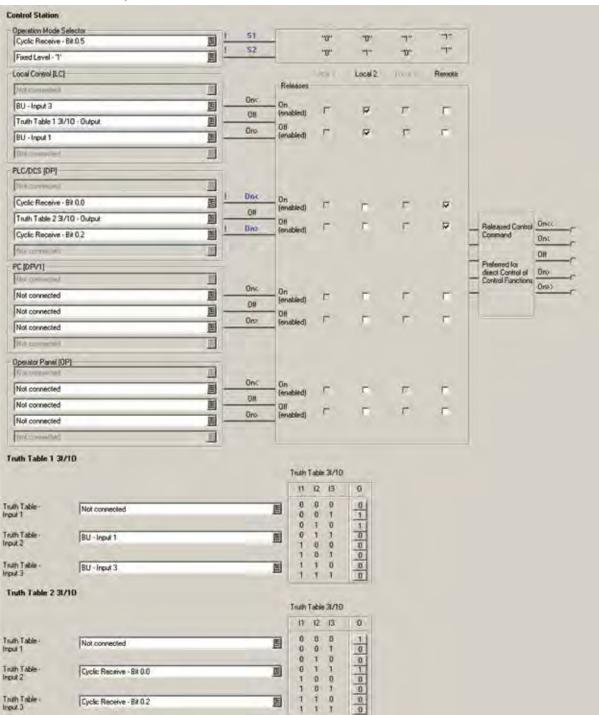
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

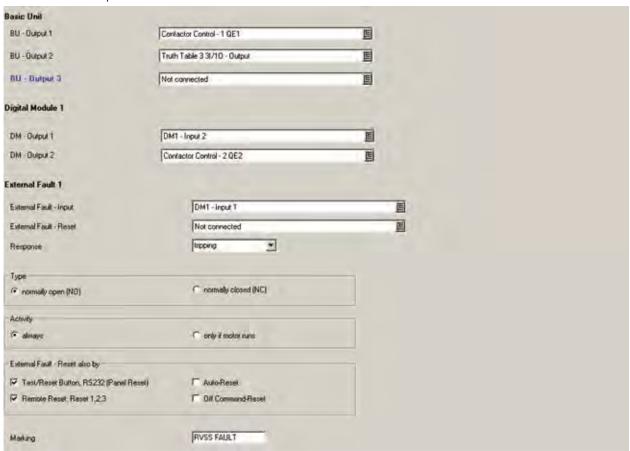


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RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

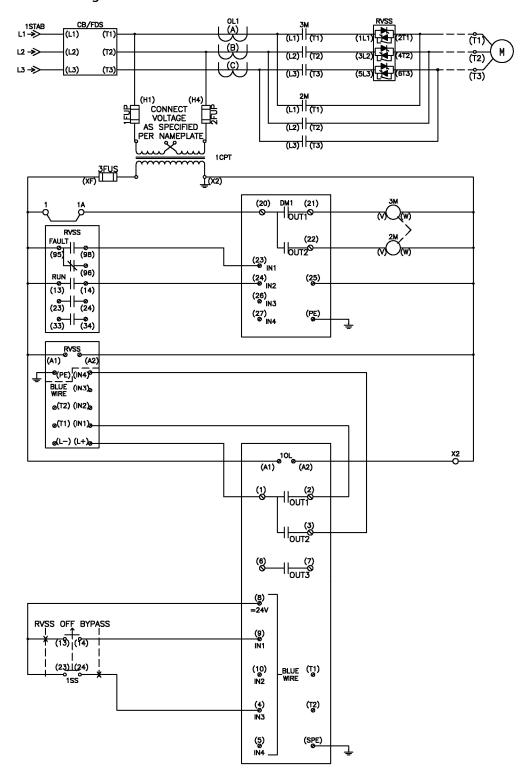
Parameter Detail

RVSS Control and Operation



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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS - Profibus Bit Operation Mode Selection -Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

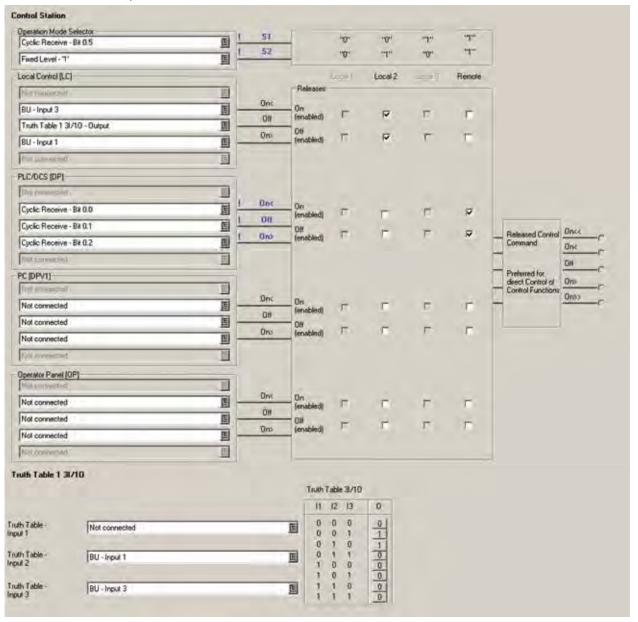
Reference manual - MCC SIMOCODE Pro

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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

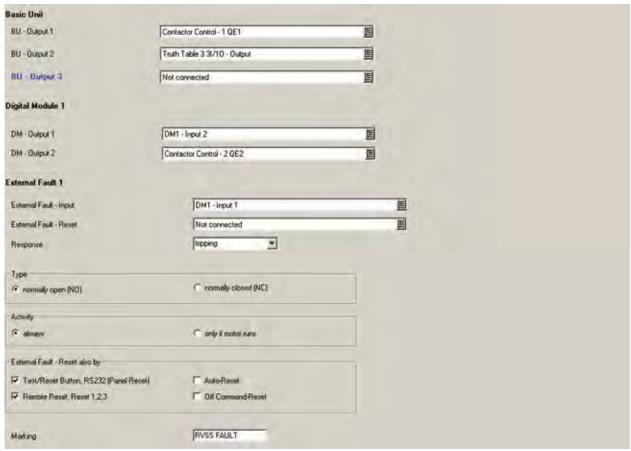


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RVSS – Profibus Bit Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

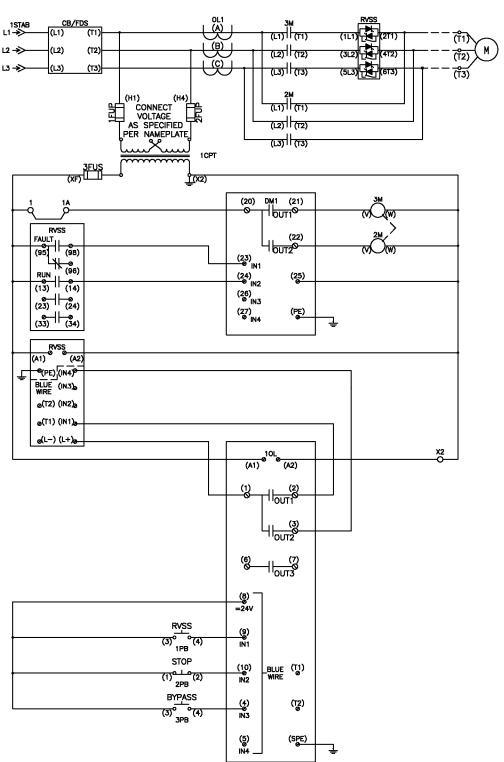
Parameter Detail

RVSS Control and Operation



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally close state. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

section 11

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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

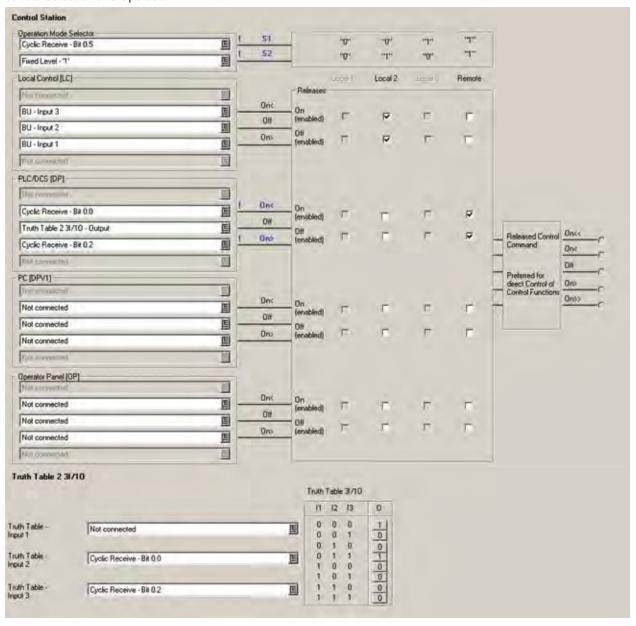
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

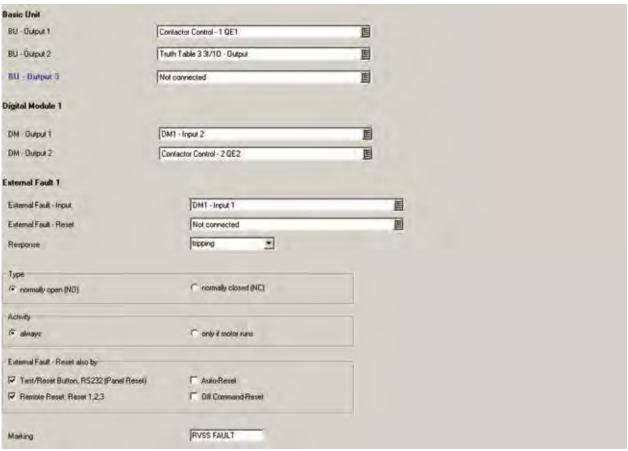


PB109

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

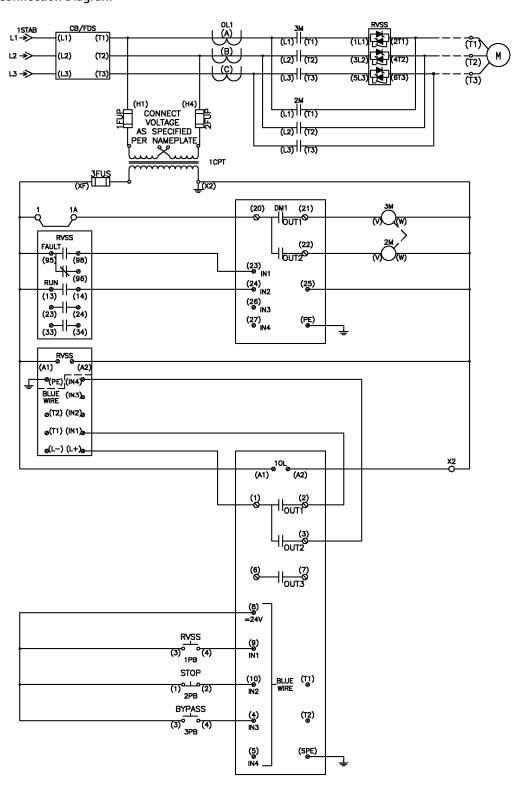
Parameter Detail

RVSS Control and Operation



PB110

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass Connection Diagram



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

PB110

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped. so equipped.

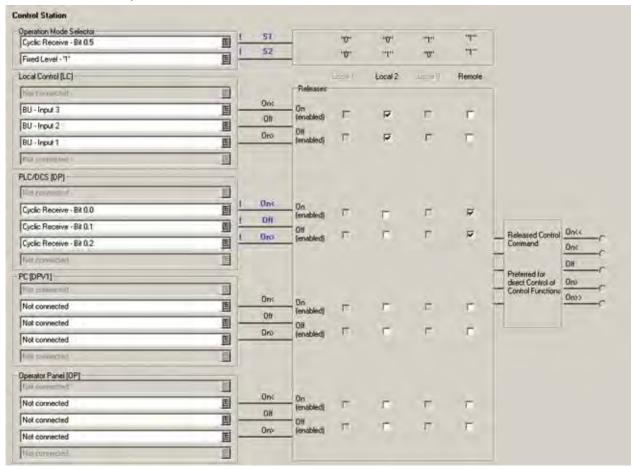
434

PB110

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

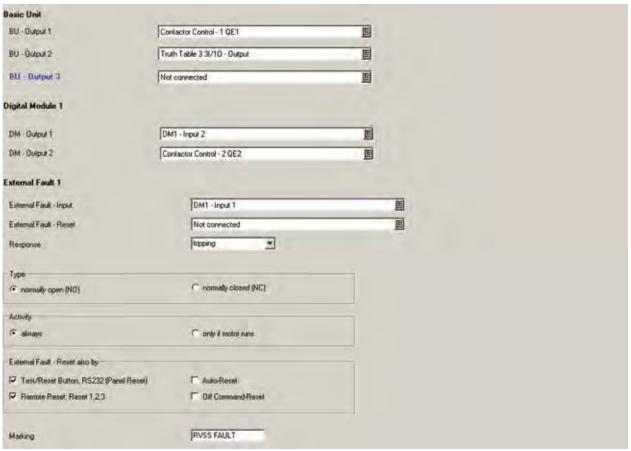


PB110

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

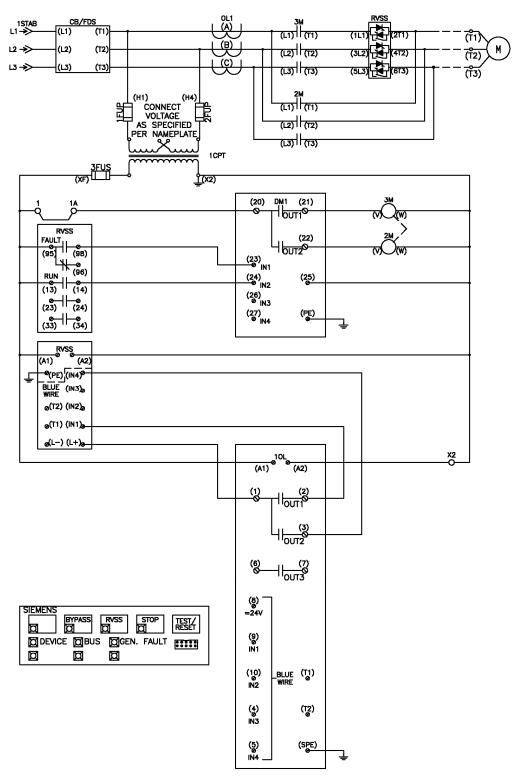
Parameter Detail

RVSS Control and Operation



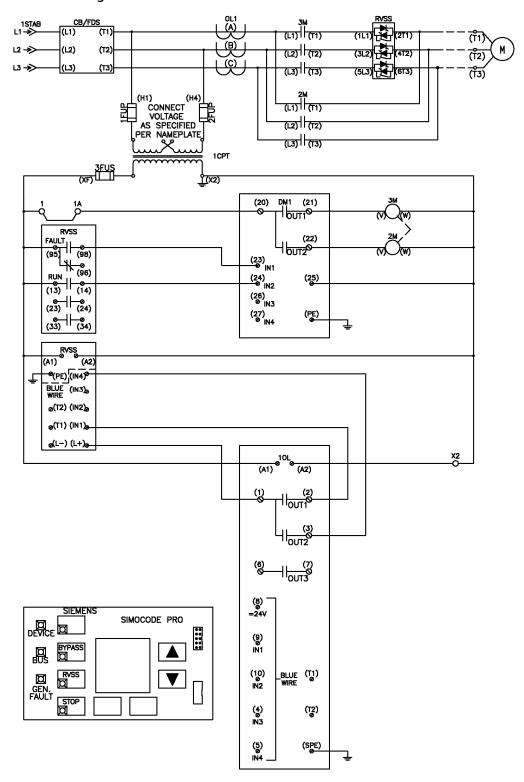
PB111

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



PB111

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

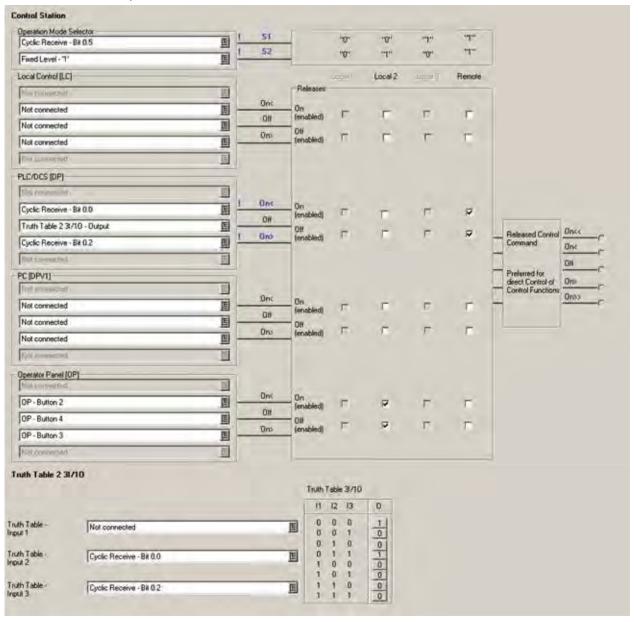
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

PB111

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

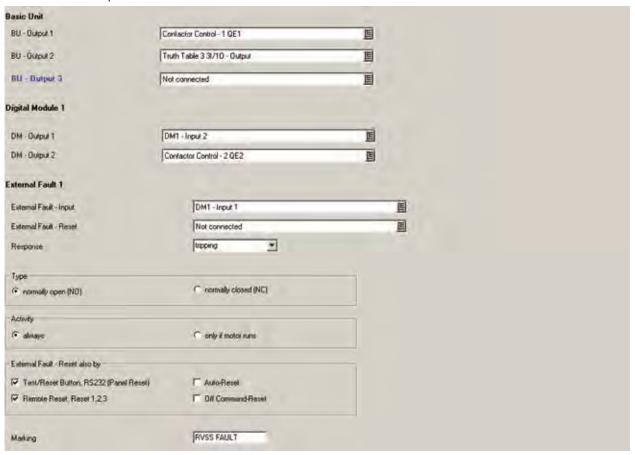


PB111

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

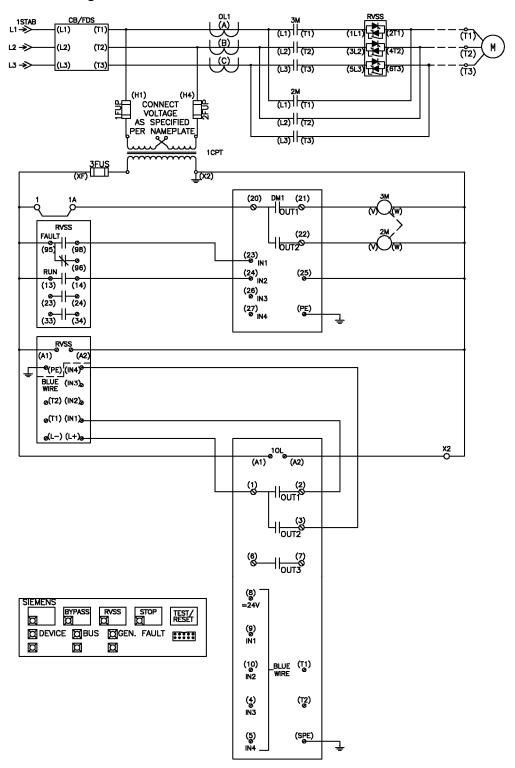
Parameter Detail

RVSS Control and Operation



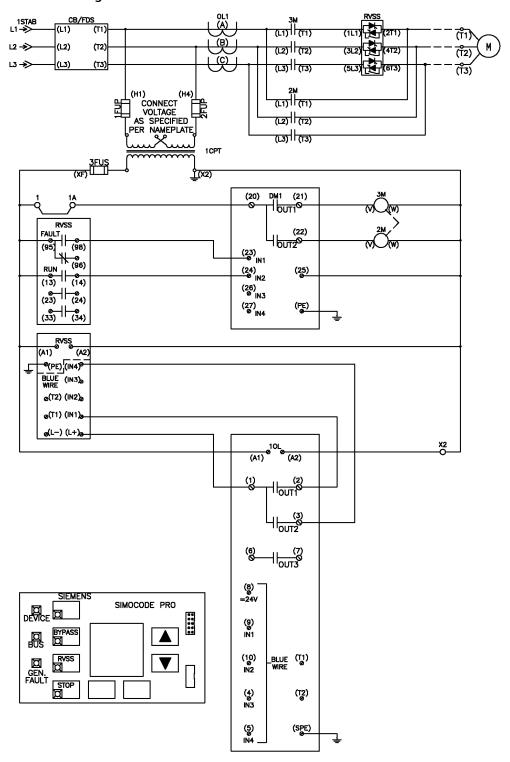
PB112

RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

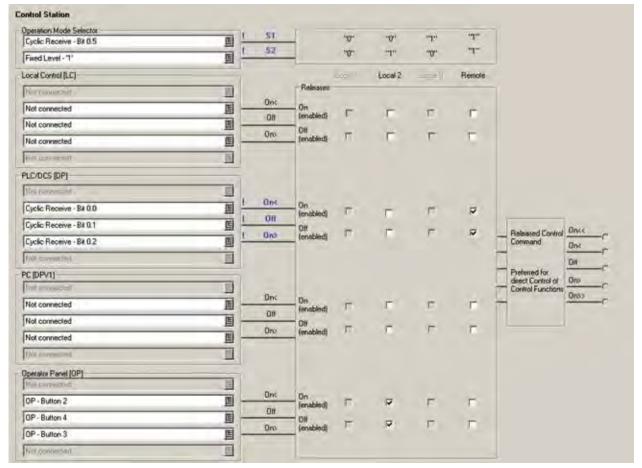
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RVSS - Profibus Bit Operation Mode Selection -Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

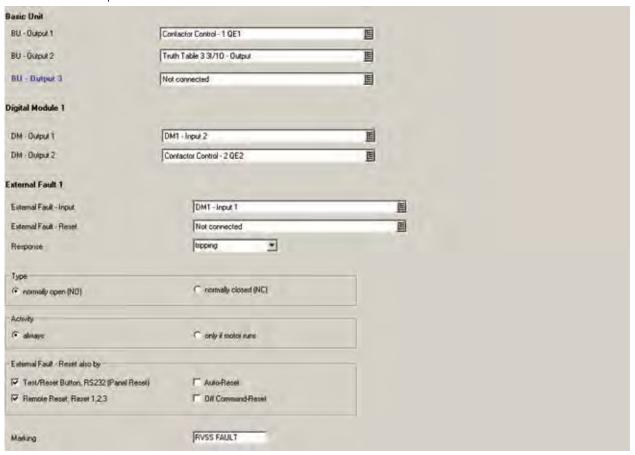


PB112

RVSS – Profibus Bit Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

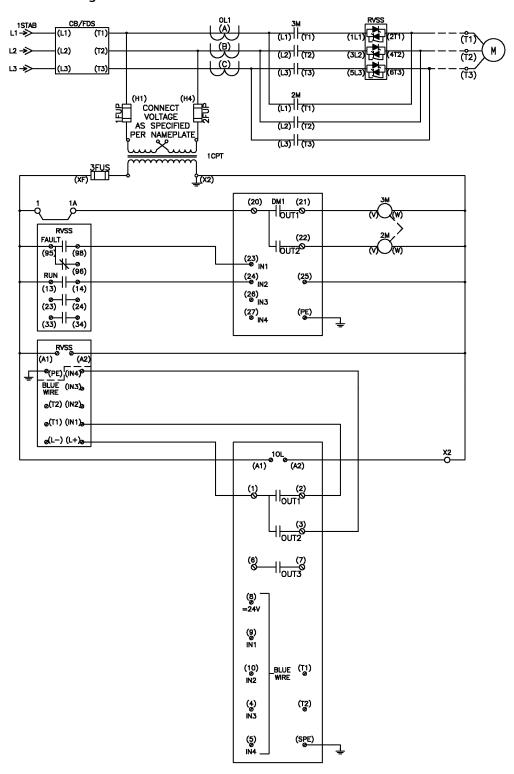
Parameter Detail

RVSS Control and Operation



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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor SIMOCODE Input 3 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

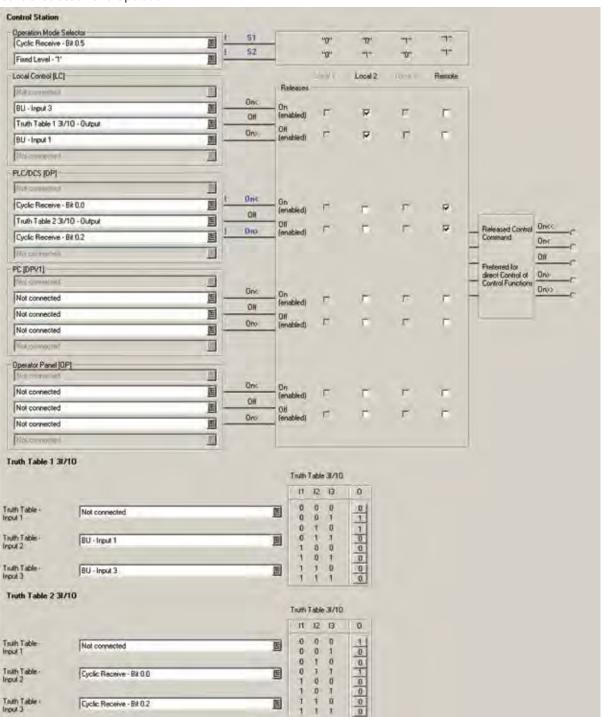
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

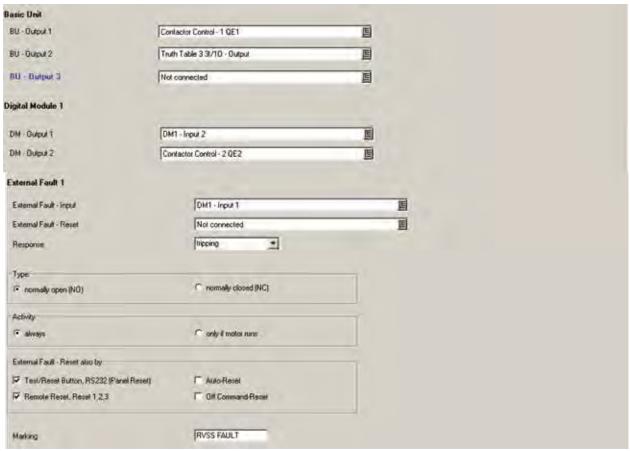


PB113

RVSS - Profibus Bit Operation Mode Selection -No Local – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

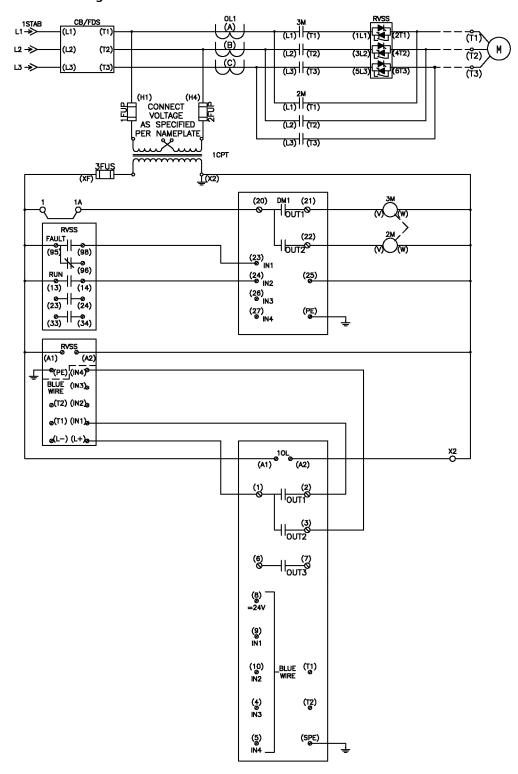
Parameter Detail

RVSS Control and Operation



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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Fixed Level 1 is connected to the Operation Mode Selector S2.
- 2. To engage Remote Operation Mode the Profibus Cyclic Receive Bit 0.5 is activated. This mode does not permit sending parameter data from the PLC/DCS.
- 3. To engage Local Operation Mode the Profibus Cyclic Receive Bit 0.5 is deactivated.

Local Control (for field commissioning purposes only)

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS SIMOCODE Input 1 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor SIMOCODE Input 3 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor SIMOCODE Input 1 and SIMOCODE Input 3 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

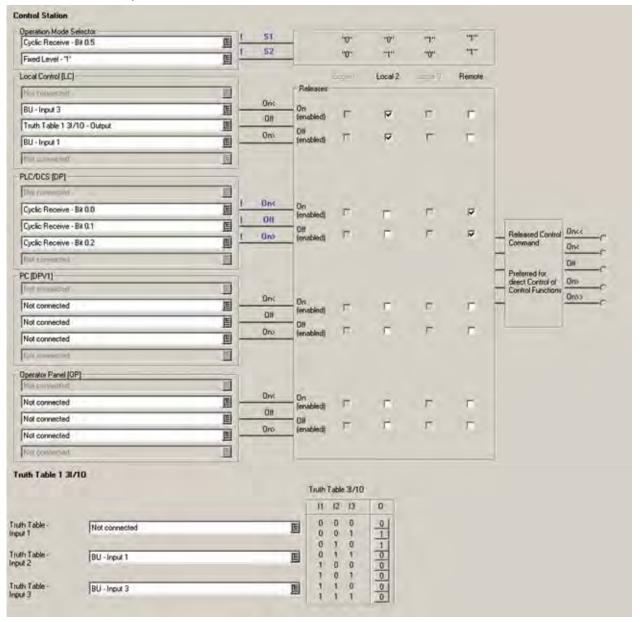
456

PB114

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

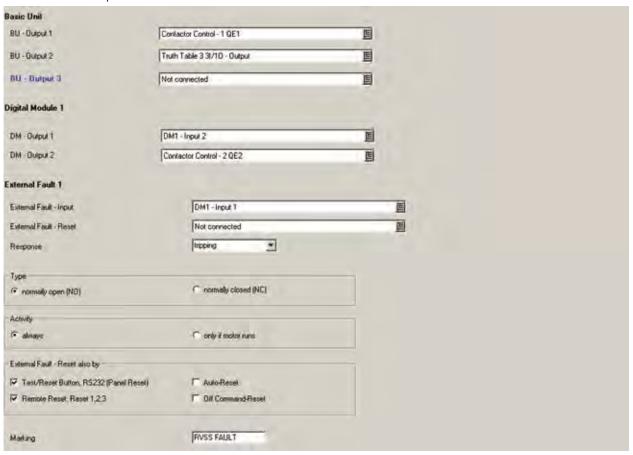


PB114

RVSS – Profibus Bit Operation Mode Selection – No Local – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

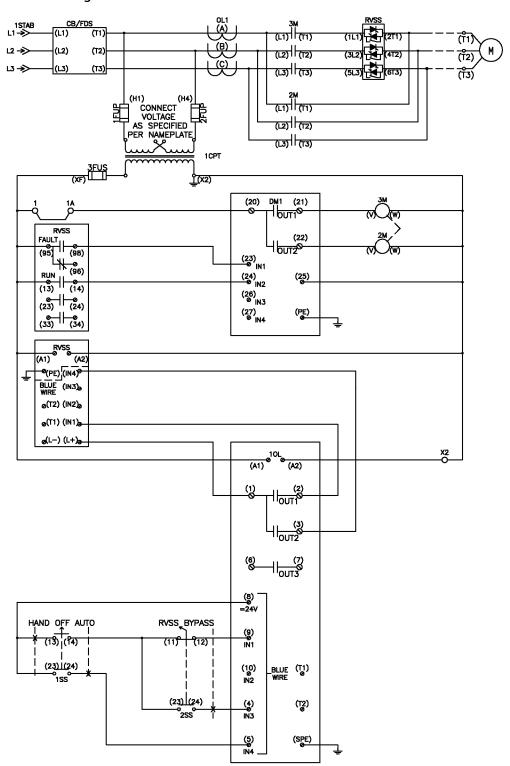
Parameter Detail

RVSS Control and Operation



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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Outputs 2 and 3 will open.

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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

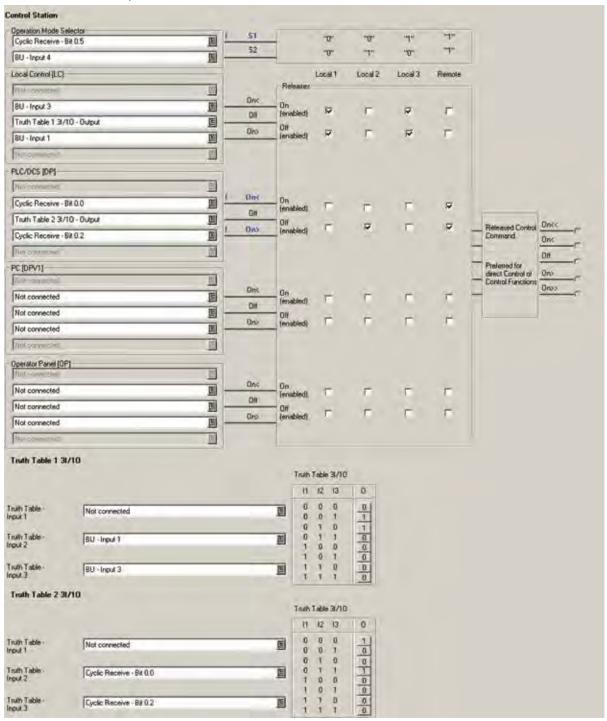
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

Control Selection and Operation

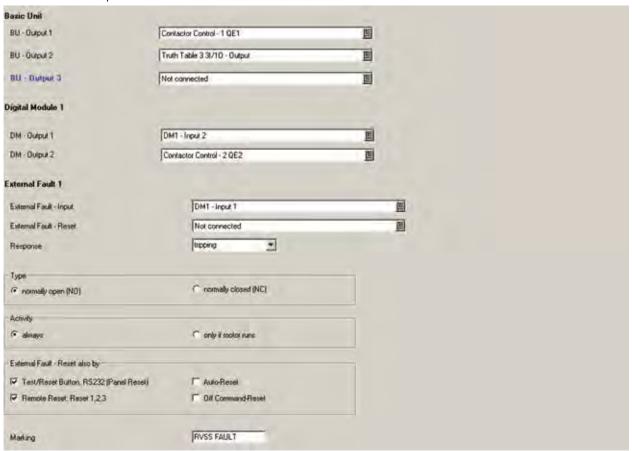


PB115

RVSS - Selector Switch Operation Mode Selection -Local 2-Wire SS – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

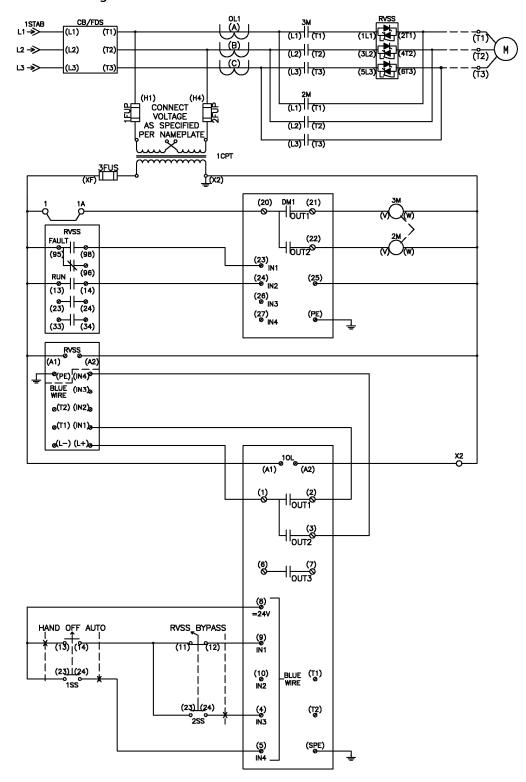
Parameter Detail

RVSS Control and Operation



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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and Truth Table 1 Output is connected to the OFF Control Command in Operation Mode Local Control (LC). Connected to Truth Table 1 are SIMOCODE Input 1 and SIMOCODE Input 3.
- 2. To engage the RVSS the Selector Switch is placed into the RVSS position. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Selector Switch is placed into the BYPASS position. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Selector Switch is placed into the OFF position. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching contactors it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Outputs 1 and 2 will open.

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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the s specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

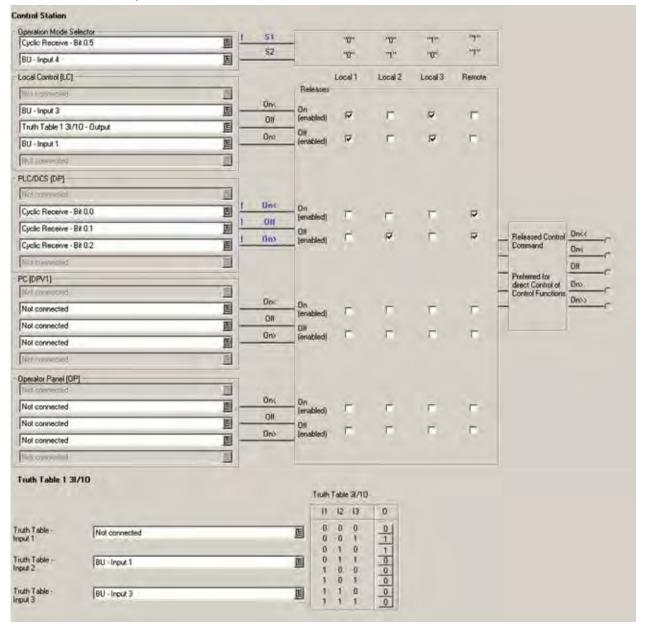
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

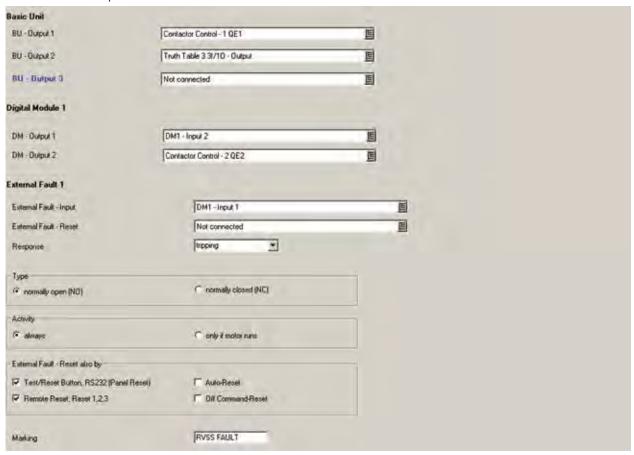
Parameter Detail



PB116

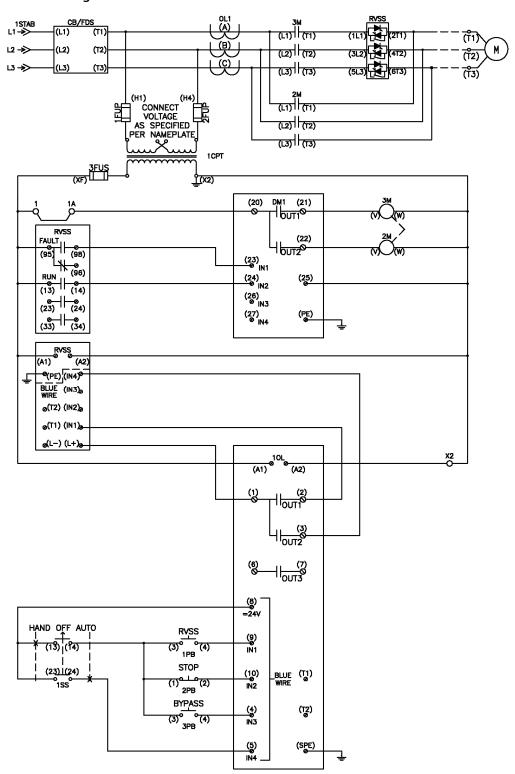
RVSS – Selector Switch Operation Mode Selection – Local 2-Wire SS – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail



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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

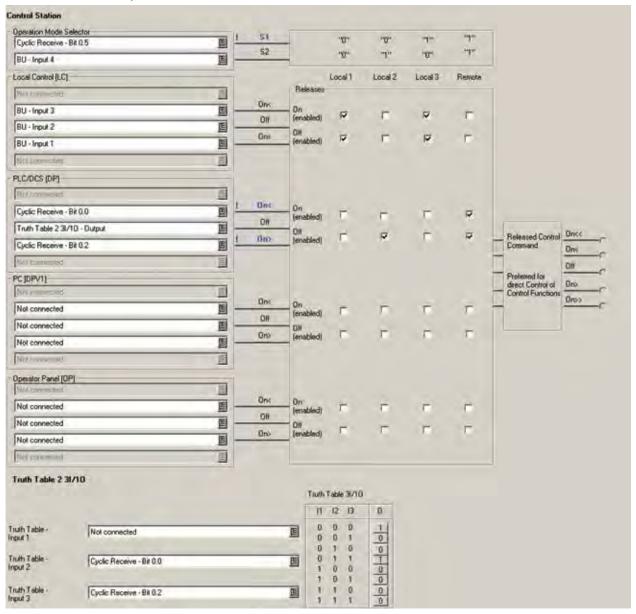
Reset Control

- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

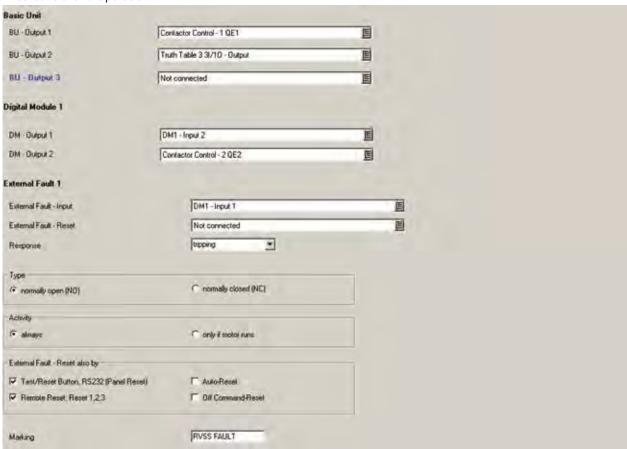
Parameter Detail



PB117

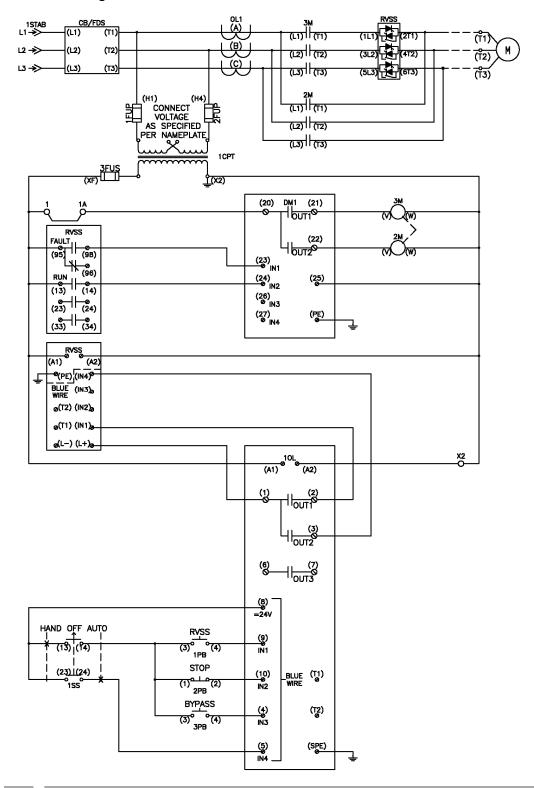
RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail



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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. SIMOCODE Input 4 is connected to the Operation Mode Selector S2.
- 2. To engage Local Operation Mode SIMOCODE Input 4 is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode SIMOCODE Input 4 is activated while Profibus Cyclic Receive Bit 0.5 is deactivated.
- 4. To engage Remote Operation Mode SIMOCODE Input 4 and Profibus Cyclic Receive Bit 0.5 are activated. This mode does not permit sending parameter data from the PLC/DCS.

Local Control

- 1. SIMOCODE Input 1 is connected to the ON > Control Command, SIMOCODE Input 3 is connected to the ON < Control Command and SIMOCODE Input 2 is connected to the OFF Control Command in Operation Mode Local Control (LC).
- 2. To engage the RVSS the RVSS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the BYPASS Pushbutton is depressed while the Stop Pushbutton is in its normally closed state. The ON< Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor two methods are available. First, while the Selector Switch is placed into the HAND position the Stop Pushbutton is depressed. Second, the Selector Switch is placed into the OFF position. For either action The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

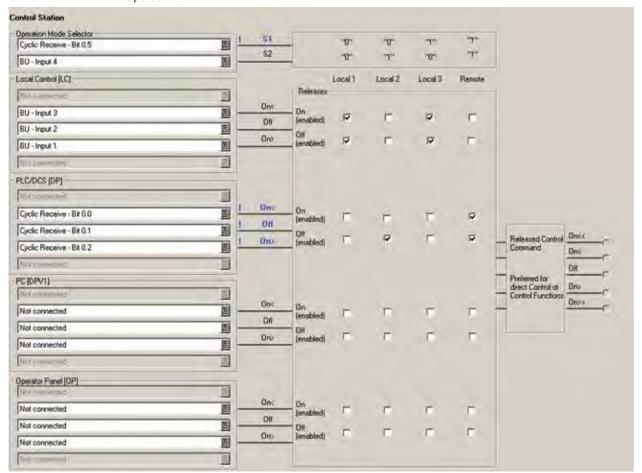
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS - Selector Switch Operation Mode Selection -Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

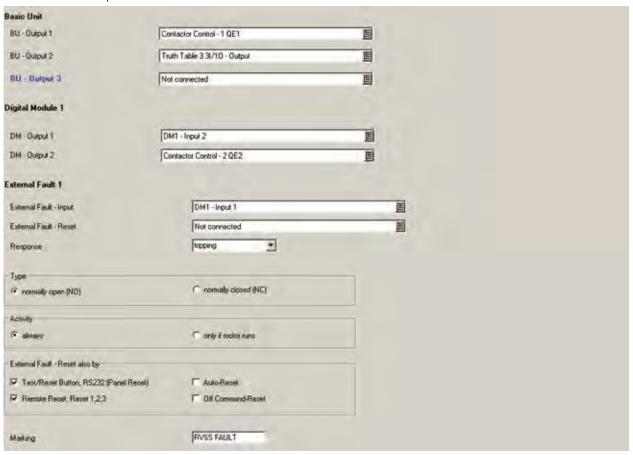
Parameter Detail



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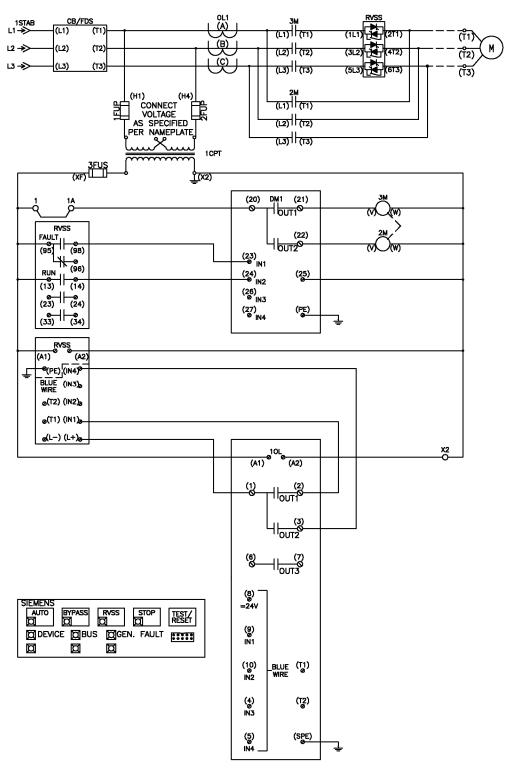
RVSS – Selector Switch Operation Mode Selection – Local 3-Wire SS/PB – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail



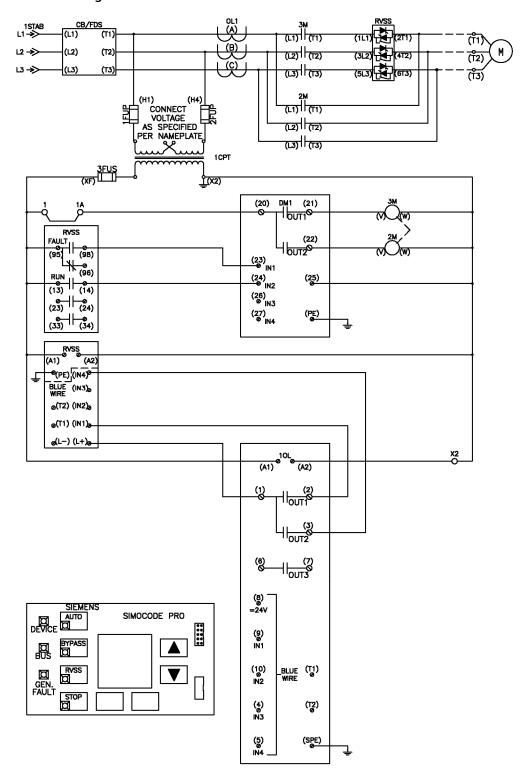
PB119

RVSS - Operator Panel Operation Mode Selection -Local 3-Wire OP – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 2-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS Contactor the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Truth Table 2 Output is connected to the OFF Control Command in Operation Mode PLC/DCS (DP). Connected to Truth Table 2 are Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0.
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.2 and Profibus Cyclic Receive Bit 0.0 are deactivated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

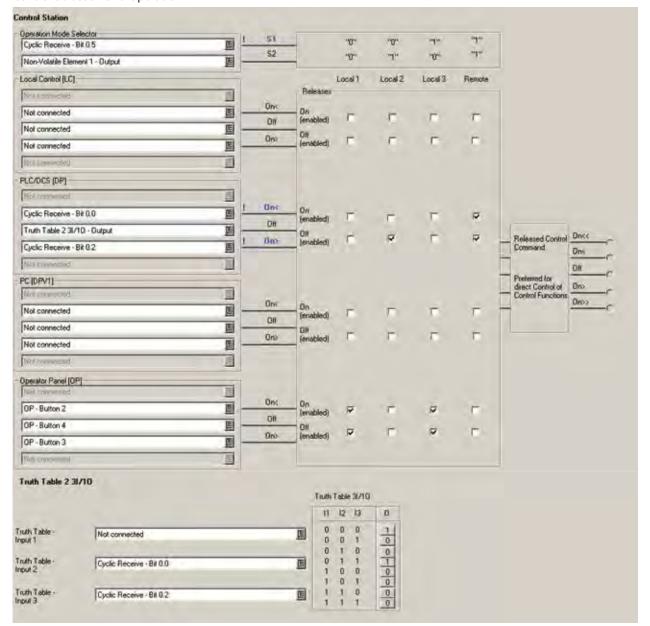
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail



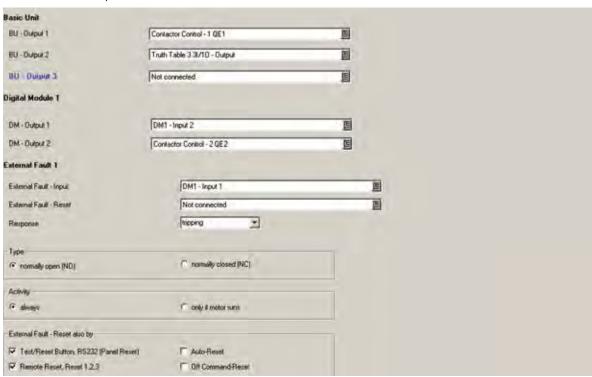
PB119

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 2-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

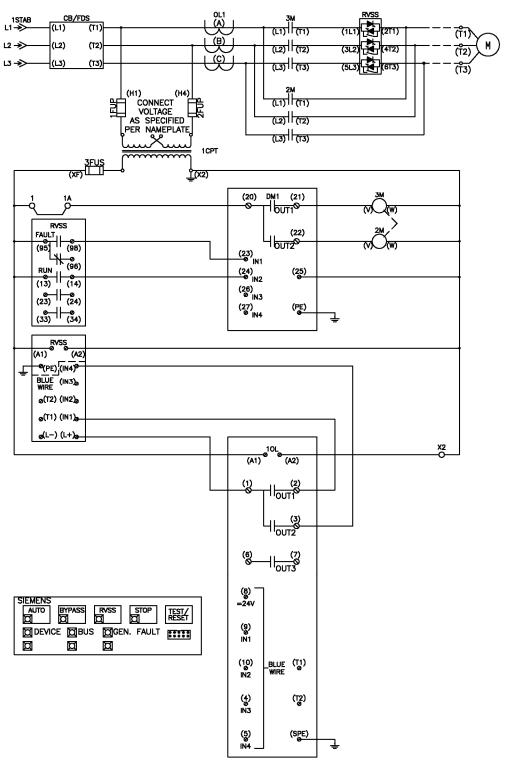
AUTO Toggle Operation

Non-Volatile Element 1		
Non-Volatile Element - Type	edge rising with memory	
Non-Volatile Element - Input	OP - Button 1	20
Non-Volatile Element - Fleset	Mon-Volable Element 2 - Quiput	0
Counter 1		
Counter + Limit	12	
Countex - Input +	OP - Button 1	10
Counter - Input -	Not connected	盟
Counter - Recel	Non-Volatile Element 2 - Output	1
Non-Volatile Element 2		
Non-Volatile Element - Type:	non inverting 🔻	
Non-Volatile Element - Input	Counter 1 - Output	4
Non Volsille Element - Reset	Not connected	E



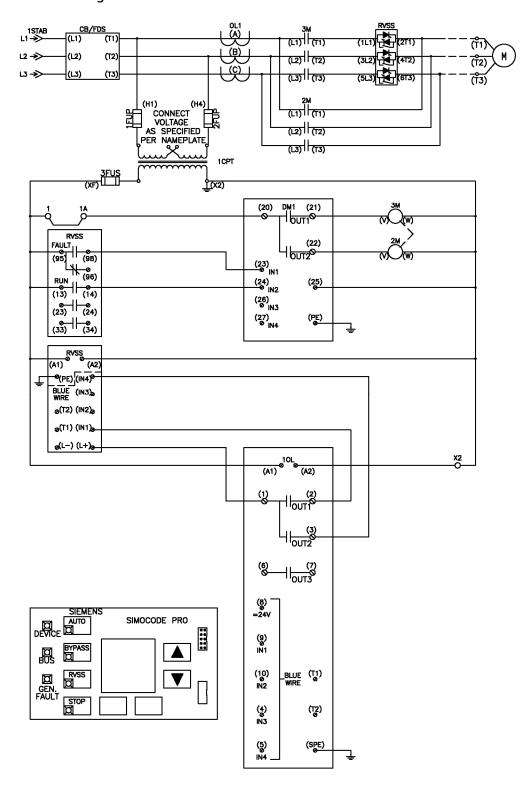
PB120

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OPD – Remote 3-Wire 3RW44 w/Input Isolation and Bypass



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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Control Selection

- 1. Profibus Cyclic Receive Bit 0.5 is connected to the Operation Mode Selector S1. Non-Volatile Element 1 Output is connected to the Operation Mode Selector S2. Operator Panel Button 1 (AUTO) is connected to Non-Volatile Element 1 for an edge rising latch as well as to Counter 1 for latch reset. Counter 1 is connected to Non-Volatile Element 2 to maintain Operation Mode selection during loss of control power.
- 2. To engage Local Operation Mode the Non-Volatile Element 1 Output is deactivated. The state of Profibus Cyclic Receive Bit 0.5 is not relevant to this operation.
- 3. To engage Remote Parameterization Operation Mode the Non-Volatile Element 1 Output is activated while Profibus Cyclic Receive Bit 0.5 is deactivated. When mode is active indication is provided via LED on Operator Panel Button 1.
- 4. To engage Remote Operation Mode the Non-Volatile Element 1 Output and Profibus Cyclic Receive Bit 0.5 (maintained | signal) are activated. This mode does not permit sending parameter data from the PLC/DCS. When mode is active indication is provided via LED on Operator Panel Button 1.

Local Control

- 1. Operator Panel Button 3 (RVSS) is connected to the ON > Control Command, Operator Panel Button 2 (BYPASS) is connected to the ON < Control Command and Operator Panel Button 4 (STOP) is connected to the OFF Control Command in Operation Mode Operator Panel (OP).
- 2. To engage the RVSS Contactor the OP RVSS Pushbutton is depressed. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the OP BYPASS Pushbutton is depressed. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the OP Stop Pushbutton is depressed. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time)
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Operating Instructions

Remote Control

- 1. Profibus Cyclic Receive Bit 0.2 is connected to the ON > Control Command, Profibus Cyclic Receive Bit 0.0 is connected to the ON < Control Command and Profibus Cyclic Receive Bit 0.1 is connected to the OFF Control Command in Operation Mode PLC/DCS (DP).
- 2. To engage the RVSS the Profibus Cyclic Receive Bit 0.2 is activated. The ON > Control Command is then triggered, causing SIMOCODE Output 1 to close, which activates an internal RVSS RUN signal.
- 3. To engage the 3M Isolation Contactor the RVSS closes the associated internal RUN contact. The SIMOCODE Digital Module Input 2 is then activated, causing the SIMOCODE Digital Module Output 1 to close.
- 4. To engage the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.0 is activated. The ON < Control Command is then triggered, causing the SIMOCODE Digital Module Output 2 to close.
- 5. To disengage the RVSS with the 3M Isolation Contactor or the 2M Bypass Contactor the Profibus Cyclic Receive Bit 0.1 is activated. The OFF Control Command is then triggered, causing SIMOCODE Output 1 and Digital Module Output 2 to open.
- 6. To disengage the 3M Isolation Contactor the loss of RVSS RUN signal opens the associated internal RUN contact once the specified Ramp-down time expires. The SIMOCODE Digital Module Input 2 is deactivated, causing the SIMOCODE Digital Module Output 1 to open. (RVSS ramp-down time must be less than or equal to the SIMOCODE Execution Time).
- 7. When switching between RVSS and BYPASS it is required to issue an OFF Control Command before engaging the Control Command for the opposite operation.
- 8. In the event of an Overload or any other General Fault event SIMOCODE Output 1 and SIMOCODE Digital Module Output 2 will open.

Reset Control

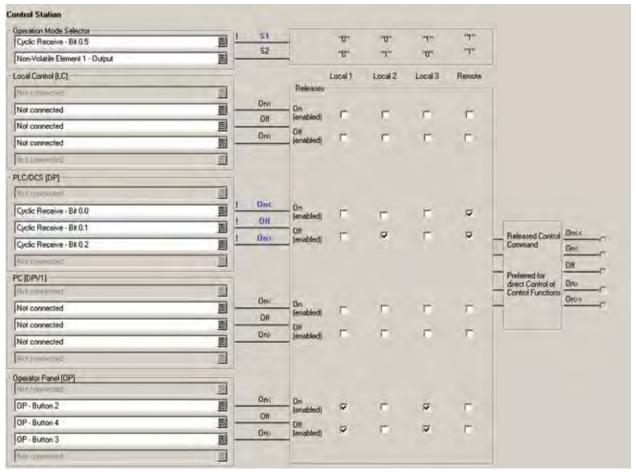
- 1. SIMOCODE General Fault conditions and SIMOCODE RVSS Fault conditions may be reset via TEST/RESET button located on the SIMOCODE Pro Basic Unit face, via Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or via TEST/RESET button located on the SIMOCODE Pro Operator Panel if so equipped.
- 2. SIMOCODE Digital Module Input 1 will indicate RVSS Fault Status only.
- 3. RVSS Hardware Fault conditions may be reset via Truth Table 3 Output. The inputs connected to Truth Table 3 are the TEST/RESET button located on the SIMOCODE Pro Basic Unit face, the Profibus Cyclic Receive Bit 0.6 from the PLC/DCS system, or the TEST/RESET SIMOCODE Pro Operator Panel if so equipped.

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RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail



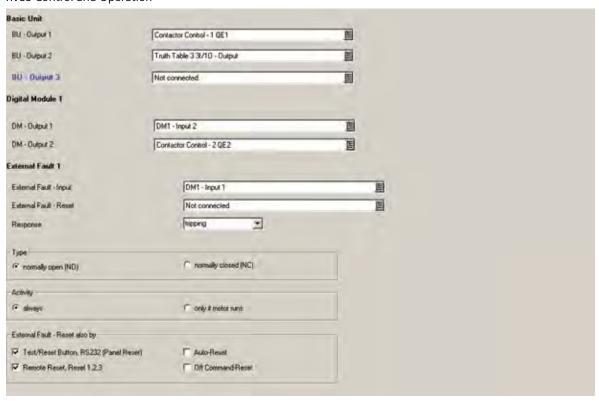
PB120

RVSS – Operator Panel Operation Mode Selection – Local 3-Wire OP (OPD) – Remote 3-Wire 3RW44 w/Input Isolation and Bypass

Parameter Detail

AUTO Toggle Operation

Non-Volotile Element 1		
Non-Volatile Element - Type	edge rising with memory	
Non-Volatile Element - Input	IOP - Button 1	26
Non-Volatile Element - Reset	Non-Volatile Element 2 - Quiput	-
Counter 1		
Counter-Limit	2	
Courter - Input +	OP - Button 1	1
Courter - Input -	Not connected	
Courter - Reset	Non-Volatile Element 2 - Output	
Non-Volatile Element 2		
Non-Volatile Element - Type	non inverting 💌	
Non-Volatile Element - Input	Counter 1 - Output	国
Non-Valuate Element - Fleset	Not connected	E



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