

SIEMENS



CATALOG EDITION 2

7PG11 Auxiliary Relays

Reyrolle

Protecting Grids With Confidence

Reyrolle 7PG11 Catalog Auxiliary Relay

Reyrolle 7PG11 - Catalog Edition 2

Devices and applications	1
7PG11 auxiliary relay	1.1
System	2
Hardware construction	2.1
Technical documentation	3
Dimension drawings and connection diagrams	3.1
Technical data	3.2
Ordering information	3.3
Appendix	4

Devices and applications

7PG11 auxiliary relay

1.1

Description

The 7PG111 and 7PG112 AR (auxiliary relay) range of electro-mechanical relays are available with up to eight self, hand or electrically reset contacts. They can be supplied with various combinations of contact, flag and reset arrangements.

AR relays are voltage operated from either AC or DC supplies. Relays may be built with or without a flag indicator.

Features

Type AR relays are a range of electro-mechanical relays with up to 8 contacts and complying to BS142. They can be supplied in most combinations of contact, flag and reset arrangements. They are used wherever there is a need for additional contacts.

The relays are identified by a series of numbers and letters which define important relay features.

The following comments are provided as a guide to the various features of type AR relays.

AR - XX1	Up to 8 self reset contacts, in any combination of normally open or normally closed as required.
AR - XX2	Up to 8 self reset contacts, in any combination of normally open or normally closed as required.
AR - XX3	Electrical and hand set contacts supplied with a contact reset mechanism in the relay case cover.
AR - XX4	Hand and self reset contacts, can be supplied with 2 hand reset contacts and a maximum of 4 self reset contacts. All the contacts may be either normally open or normally closed.
AR - XX6	Electrical reset contacts with optional self reset flag.
AR - XX3 and XX6	Reset coils are short time rated, we recommend that reset circuits include a normally open (cut-off) contact

First digit	Second digit - Type of flag		Third digit - Type of contact reset	
Number of identical elements	0	No flag	1	Self
	1	Hand reset	2	Hand
	2	Hand reset reverse acting	3	Electrical and hand
	3	Self reset	4	Hand and self
	4	Self reset reverse acting	6	Electrical

Table 1.1/1 Relay features

The AR901 has 4 user available contacts and has been designed for a specific function to be used in conjunction with the 7SR23



[Reyrolle Product Catalogue, 7PG11, 1, 1, 1]

Figure 1.1/1 7PG11 auxiliary relay

DAD high impedance protection relay to act as a CT shorting relay.

Benefits

- Robust design for a long, reliable service life
- Supplied in a draw-out type case
- Various combinations of coils, contacts, operation indicator flags can be specified
- Consistent positive action

Standard variants

The below descriptions are used to identify further features:

Suffix D	Indicates a relay fitted with a suppression diode across the coil to reduce the effects of back emf on switch-off.
Suffix SB	Identifies a relay with a series break contact to cut-off the operating coil, thus the relay burden becomes zero after operation of this contact. Only available with AR relays which have hand reset contacts.
Self reset contact	Contact is in the operated position whilst the relay operate coil is energized.
Hand reset contact	Contact is in the operated position by a mechanical latch that is released by the reset mechanism.
Electrical reset contact	Contact is in the operated position by a mechanical latch that is released by energizing the reset coil.

Standard variants for 7PG11	
7PG1110-1***00 (AR101)	2, 4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – No flag Contact reset arrangement – Self
7PG1110-3***00 (AR103)	4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – No flag Contact reset arrangement – Electrical and Hand
7PG1111-1***00 (AR111)	2, 4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – Hand Contact reset arrangement – Self
7PG1111-2***00 (AR112)	2, 4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – Hand Contact reset arrangement – Hand
7PG1111-2***40 (AR112SB)	1, 3, 5 or 7 contacts (+1 SB contact)
	Modular case size – E2 Flag reset arrangement – Hand Contact reset arrangement – Hand
7PG1111-3***00 (AR113)	4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – Hand Contact reset arrangement – Electrical and Hand
7PG1113-1***00 (AR131)	2, 4, or 6 contacts
	Modular case size – E2 Flag reset arrangement – Self Contact reset arrangement – Self
7PG1113-3***00 (AR133)	2, 4, 6 or 8 contacts
	Modular case size – E2 Flag reset arrangement – Self Contact reset arrangement – Electrical and Hand
7PG1121-1***00 (AR211)	2, 4, or 6 contacts
	Modular case size – E2 (2 contacts) or E4 (4 or 6 contacts) Flag reset arrangement – Hand Contact reset arrangement – Self
7PG1121-2***00 (AR212)	2, 4, or 6 contacts
	Modular case size – E2 (2 contacts) or E4 (4 or 6 contacts) Flag reset arrangement – Hand Contact reset arrangement – Hand
7PG1121-2***40 (AR212SB)	1, 3, or 5 contacts (+1 SB contact)
	Modular case size – E4 Flag reset arrangement – Hand Contact reset arrangement – Hand
7PG1122-1***00 (AR221)	2, 4, or 6 contacts
	Modular case size – E2 (2 contacts) or E4 (4 or 6 contacts) Flag reset arrangement – Hand ¹ Contact reset arrangement – Self

Devices and applications

7PG11 auxiliary relay

7PG1123-1***00 (AR231)	2 or 4 contacts
	Modular case size – E2 (2 contacts) or E4 (4 contacts) Flag reset arrangement – Self Contact reset arrangement – Self

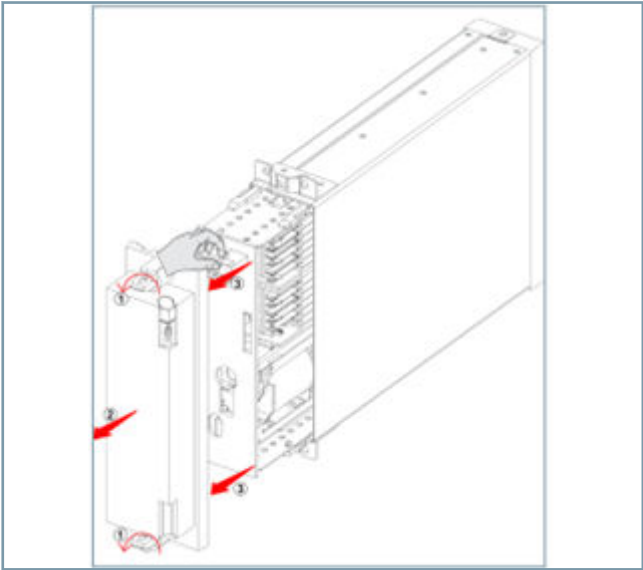
Table 1.1/2 Standard variants for 7PG11

Hardware construction

The device is housed in a draw-out case designed for panel mounting.

The rear connection comprises of M4 screw terminals suitable for ring type crimps.

The chassis of the device can be withdrawn from the case by pulling the handles on the top and bottom.



[sc_PG11_HandlesWithdrawing, 1, --]

Figure 2.1/1 Withdrawing device using handles

Earthing terminal

The case earth stud should be solidly earthed to the panel earth before any connections to the device rear terminal. Located at the top rear of the case is a case earth stud as shown in [Figure 2.1/2](#), this must be connected to the main panel earth.

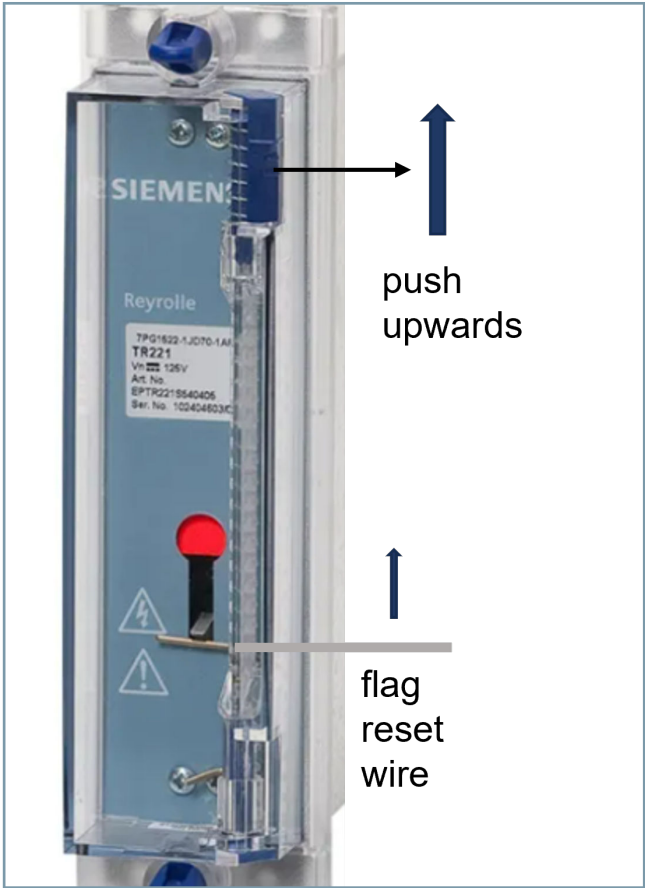


[sc_PG11_EarthingTerminal, 1, --]

Figure 2.1/2 Case earth stud

Hand reset mechanism

Pull the blue handle upwards to slide the mechanism in an upwards direction with the flag reset wire at the bottom.



[sc_PG11_HandResetMechanism, 1, --]

Figure 2.1/3 Hand reset mechanism

Relay information

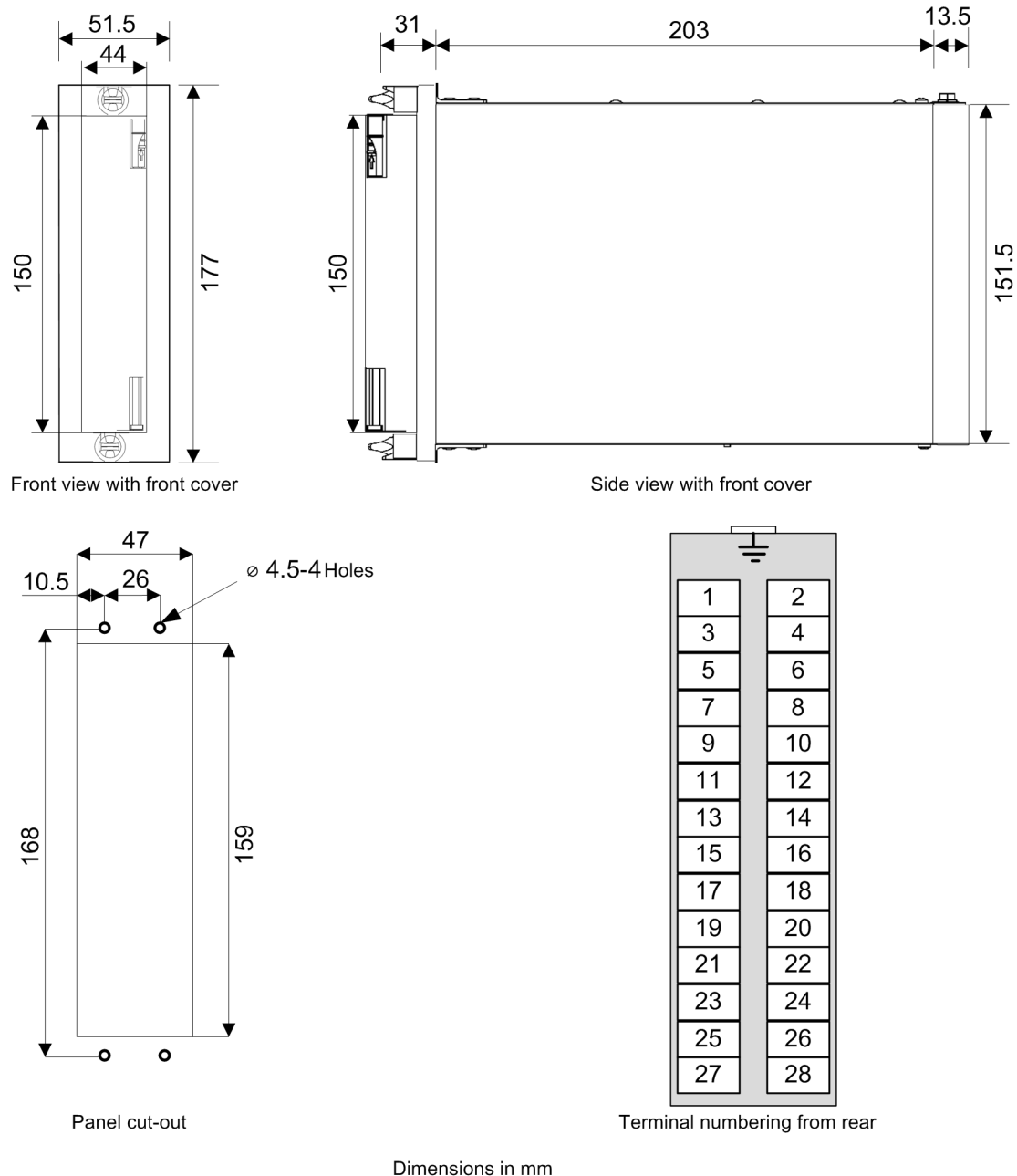
The device fascia displays the MLFB order code, serial number, and device identification reference.

	Electrical Hazard
	Refer to device documentation
	Waste Electrical and Electronic Equipment Directive (WEEE)
	European CE marking
	Guideline for the Eurasian Market
	United Kingdom (UK) conformity-assessed marking

Technical documentation

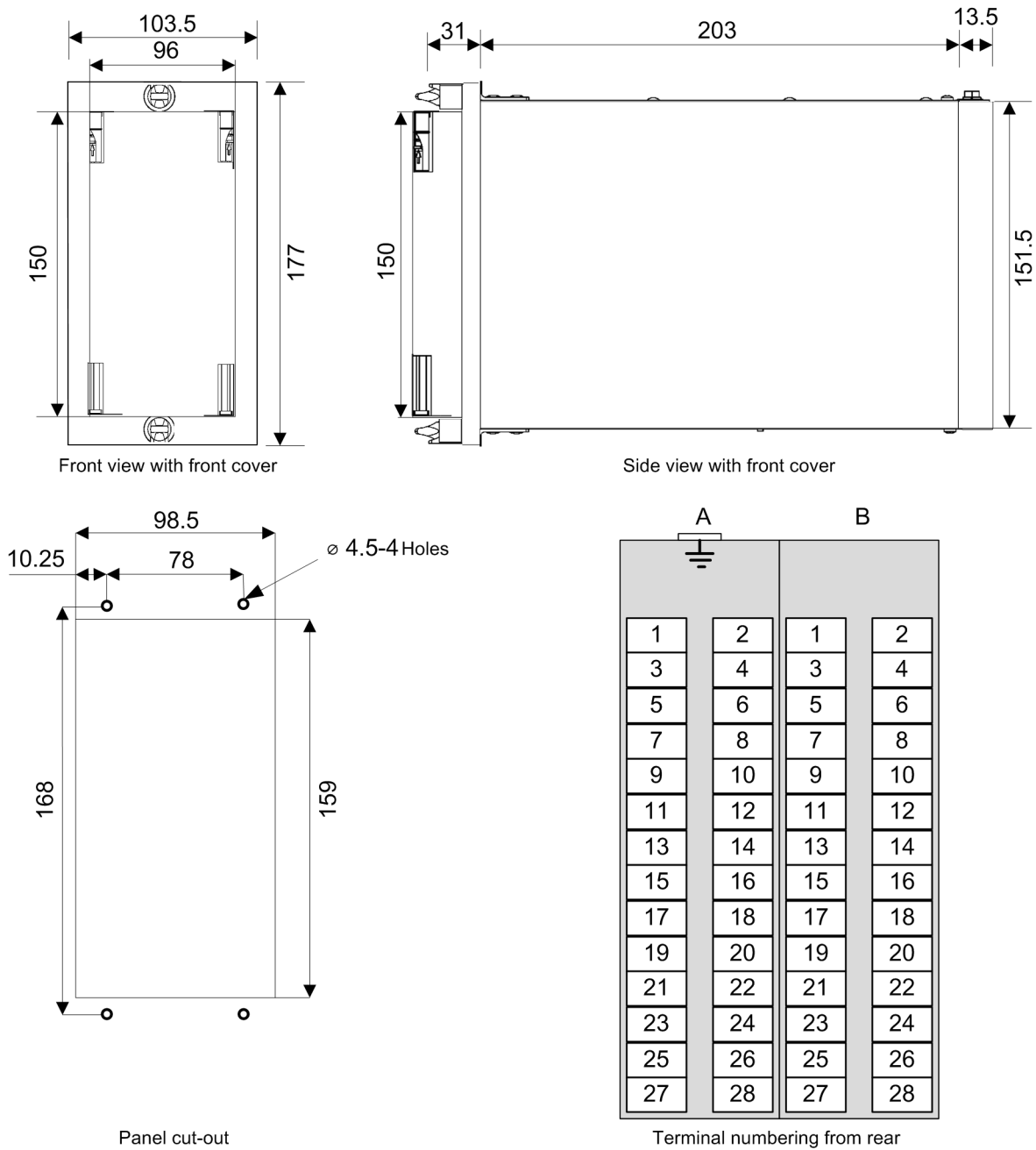
Dimension drawings and connection diagrams

Dimension drawings



[src_E2casing_1_en_US]

Figure 3.1/1 E2 case



Dimensions in mm

[sc_E4casing_1_en_US]

Figure 3.1/2 E4 case

Connection diagrams

Please refer to the Siemens website for the connection diagrams.

Technical documentation

Technical data

Technical data

Inputs and outputs

Rated voltage (Vn)	
AC	63.5, 110, 220, 240 V
DC	12, 24, 30, 50, 125, 240 V

Operating range	
AC	80 % to 110 % of rated voltage
DC	70 % to 115 % of rated voltage

Burden	
3 to 5 W/VA depending upon voltage rating	Dependent on rating. Rectified AC relays nominal power factor = 0.96

3.2

Output contacts

Make and carry continuously	AC 1250 VA or DC 1250 W within the limits of 660 V and 5 A
Make and carry for 3 seconds	AC 7500 VA or DC 7500 W within the limits of 660 V and 30 A
Breaking capacity (≤ 5 A and ≤ 250 V):	
AC resistive	1250 VA
DC resistive	100 W
DC inductive	50 W L/R = 40 ms
Minimum number of operations	1000 at maximum load
Minimum recommended load	0.5 Watt limits 10 mA or 5 V

Electrical tests

Insulation

IEC 60255-5 RMS levels for 1 minute

Between contacts to earth and to the coil	2.0 kV
Between any case terminal and earth	2.0 kV
Between case terminals of independent circuits	2.0 kV
Across normally open contacts	1.0 kV

Transient overvoltage

IEC 60255-5

Between all terminals and earth or between any two independent circuits without damage or flash-over	5 kV 1.2/50 µs 0.5 J
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Mechanical

Vibration (Sinusoidal)

IEC 255-21-1	The relays meet the requirements of Class 1 for vibration response and endurance
BS142 section 2.1 category S2	Relays will withstand a 20G shock or impact on the panel without operating

Shock bump

IEC 255-21-2	Class 1 severity
BS142, sub-section 1.5.2. (1989)	Class 1 severity

Mechanical life

Durability	In excess of 10,000 operations with the contact rating at a rate of 600 operations per hour
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Environmental

Temperature

IEC 60068-2-1/IEC 60068-2-2 and BS2011 (1977)

Operating	-10°C to +55°C
Storage	-25°C to +70°C

Humidity

IEC 60068-2-30

Operational test	56 days at 40°C and 95 % RH
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Ip ratings

Type	Level
Installed with cover	IP 5X

Performance

Instantaneous operating time	
Typically	25 ms
Range	10 ms to 50 ms

Ordering information - 7PG111 auxiliary relay (AR101, AR103)

Product description									Order no.																	
									1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16
Auxiliary relay (AR101, AR103)									7	P	G	1	1	1	0	-	□	□	□	□	0	-	0	A	□	□
Single element, no flag, size E2, AC or DC voltage operated relay																										
<u>Contact operation</u>																										
Self reset contacts										1																
Hand and electrical reset contacts										3																
<u>Contact arrangement – NO</u>																										
0 NO											A															
1 NO											B															
2 NO											C															
3 NO											D															
4 NO											E															
5 NO											F															
6 NO											G															
7 NO											H															
8 NO											J															
<u>Contact arrangement – NC</u>																										
0 NC											A															
1 NC											B															
2 NC											C															
3 NC											D															
4 NC											E															
5 NC											F															
6 NC											G															
7 NC											H															
8 NC											J															
<u>Number of contacts</u> ²																										
Two												0														
Four												1														
Six												3														
Eight												5														
<u>Voltage rating</u>																										
DC 12 V																		A								
DC 24 V																		B								
DC 30 V																		C								
DC 50 V																		D								
DC 60 V																		E								
DC 125 V																		F								
DC 220 V																		G								
DC 240 V																		H								
AC 63.5 V																		J		0					0	
AC 110 V																		K		0					0	
AC 220 V																		L		0					0	

² The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Product description		Order no.	
AC 240 V		M	0
			I
<i>Back EMF suppression diode</i>			I
Not fitted			0
Fitted			1

Ordering information - 7PG111 auxiliary relay (AR111, AR112)

Product description									Order no.																							
									1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16						
Auxiliary relay (AR111, AR112)									7	P	G	1	1	1	1	-	□	□	□	□	0	-	0	A	□	□						
Single element, hand reset flag, size E2, AC or DC voltage operated relay																																
<u>Contact operation</u>																																
Self reset contacts										1																						
Hand reset contacts										2																						
<u>Contact arrangement – NO</u>																																
0 NO											A																					
1 NO											B																					
2 NO											C																					
3 NO											D																					
4 NO											E																					
5 NO											F																					
6 NO											G																					
7 NO											H																					
8 NO											J																					
<u>Contact arrangement – NC</u>																																
0 NC											A																					
1 NC											B																					
2 NC											C																					
3 NC											D																					
4 NC											E																					
5 NC											F																					
6 NC											G																					
7 NC											H																					
8 NC											J																					
<u>Number of contacts</u> ³																																
Two												0																				
Four												1																				
Six												3																				
Eight												5																				
<u>Voltage rating</u>																																
DC 12 V																		A														
DC 24 V																		B														
DC 30 V																		C														
DC 50 V																		D														
DC 60 V																		E														
DC 125 V																		F														
DC 220 V																		G														
DC 240 V																		H														
AC 63.5 V																		J											0	0		
AC 110 V																		K												0	0	
AC 220 V																		L													0	0

³ The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Product description		Order no.	
AC 240 V		M	0
			I
<i>Back EMF suppression diode</i>			I
Not fitted			0
Fitted			1

Ordering information - 7PG111 auxiliary relay (AR112SB)

Product description										Order no.									
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Auxiliary relay (AR112SB)	7	P	G	1	1	1	1	-	2	□	□	□	4	-	0	A	□	□	
Single element, hand reset flag, hand reset contacts, size E2, DC voltage operated relay with series break contact to reduce relay burden to zero after operation																			
<u>Contact arrangement – NO</u>																			
0 NO										A									
1 NO										B									
2 NO										C									
3 NO										D									
4 NO										E									
5 NO										F									
6 NO										G									
7 NO										H									
<u>Contact arrangement – NC</u>																			
0 NC										A									
1 NC										B									
2 NC										C									
3 NC										D									
4 NC										E									
5 NC										F									
6 NC										G									
7 NC										H									
8 NC										J									
<u>Number of contacts</u> ⁴																			
Two												0							
Four												1							
Six												3							
Eight												5							
<u>Voltage rating</u>																			
DC 12 V																	A		
DC 24 V																	B		
DC 30 V																	C		
DC 50 V																	D		
DC 60 V																	E		
DC 125 V																	F		
DC 220 V																	G		
DC 240 V																	H		
AC 63.5 V																	J	0	
AC 110 V																	K	0	
AC 220 V																	L	0	
AC 240 V																	M	0	
<u>Back EMF suppression diode</u>																			
Not fitted																		0	
Fitted																		1	

⁴ The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Ordering information - 7PG111 auxiliary relay (AR113)

Product description	Order no.																		
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Auxiliary relay (AR113)	7	P	G	1	1	1	1	-	3	□	□	□	0	-	0	A	□	□	
Single element, hand reset flag, hand and electrical reset contacts, size E2, AC or DC voltage operated relay																			
<u>Contact arrangement – NO</u>																			
0 NO										A									
1 NO										B									
2 NO										C									
3 NO										D									
4 NO										E									
5 NO										F									
6 NO										G									
7 NO										H									
8 NO										J									
<u>Contact arrangement – NC</u>																			
0 NC										A									
1 NC										B									
2 NC										C									
3 NC										D									
4 NC										E									
5 NC										F									
6 NC										G									
7 NC										H									
8 NC										J									
<u>Number of contacts</u> ⁵																			
Four												1							
Six												3							
Eight												5							
<u>Voltage rating</u>																			
DC 12 V																		A	
DC 24 V																		B	
DC 30 V																		C	
DC 50 V																		D	
DC 60 V																		E	
DC 125 V																		F	
DC 220 V																		G	
DC 240 V																		H	
AC 63.5 V																		J	0
AC 110 V																		K	0
AC 220 V																		L	0
AC 240 V																		M	0
<u>Back EMF suppression diode</u>																			
Not fitted																			0
Fitted																			1

⁵ The number of contacts must match the selected contact arrangement

Ordering information - 7PG111 auxiliary relay (AR211, AR212)

Product description									Order no.										
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Auxiliary relay (AR211, AR212)	7	P	G	1	1	2	1	-	□	□	□	□	0	-	0	□	□	□	
Two element, hand reset flag, AC or DC voltage operated relay																			
<u>Contact operation</u>																			
Self reset contacts									1										
Hand reset contacts									2							C			
<u>Contact arrangement – NO</u>																			
0 NO									A										
1 NO									B										
2 NO									C										
3 NO									D										
4 NO									E										
5 NO									F										
6 NO									G										
<u>Contact arrangement – NC</u>																			
0 NC									A										
1 NC									B										
2 NC									C										
3 NC									D										
4 NC									E										
5 NC									F										
6 NC									G										
<u>Number of contacts⁶</u>																			
Two									0							A			
Four									1							C			
Six									3							C			
<u>Housing size</u>																			
Case size E2 (4U high)									A										
Case size E4 (4U high)									C										
<u>Voltage rating</u>																			
DC 12 V									A										
DC 24 V									B										
DC 30 V									C										
DC 50 V									D										
DC 60 V									E										
DC 125 V									F										
DC 220 V									G										
DC 240 V									H										
AC 63.5 V									J	0									
AC 110 V									K	0									
AC 220 V									L	0									
AC 240 V									M	0									

⁶ The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Product description	Order no.
	I
<i>Back EMF suppression diode</i>	I
Not fitted	0
Fitted	1

Ordering information - 7PG111 auxiliary relay (AR212SB)

Product description	Order no.															
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14
Auxiliary relay (AR212SB)	7	P	G	1	1	2	1	-	2	□	□	□	4	-	0	C
Two element, hand reset flag, hand reset contacts, size E4, DC voltage operated relay with series break contact to reduce relay burden to zero after operation																
<u>Contact arrangement – NO</u>																
0 NO										A						
1 NO										B						
2 NO										C						
3 NO										D						
4 NO										E						
5 NO										F						
<u>Contact arrangement – NC</u>																
0 NC										A						
1 NC										B						
2 NC										C						
3 NC										D						
4 NC										E						
5 NC										F						
6 NC										G						
<u>Number of contacts ⁷</u>																
Two												0				
Four												1				
Six												3				
<u>Voltage rating</u>																
DC 12 V																A
DC 24 V																B
DC 30 V																C
DC 50 V																D
DC 60 V																E
DC 125 V																F
DC 220 V																G
DC 240 V																H
AC 63.5 V																J
AC 110 V																K
AC 220 V																L
AC 240 V																M
<u>Back EMF suppression diode</u>																
Not fitted																0
Fitted																1

⁷ The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Ordering information - 7PG111 auxiliary relay (AR221)

Product description	Order no.																		
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Auxiliary relay (AR221)	7	P	G	1	1	2	2	-	1	□	□	□	0	-	0	□	□	□	
Two element, hand reset reverse acting flag, self reset contacts, AC or DC voltage operated relay																			
<u>Contact arrangement – NO</u>																			
0 NO											A								
1 NO											B								
2 NO											C								
3 NO											D								
4 NO											E								
5 NO											F								
6 NO											G								
<u>Contact arrangement – NC</u>																			
0 NC											A								
1 NC											B								
2 NC											C								
3 NC											D								
4 NC											E								
5 NC											F								
6 NC											G								
<u>Number of contacts</u> ⁸																			
Two											0						A		
Four											1						C		
Six											3						C		
<u>Housing size</u>																			
Case size E2 (4U high)																	A		
Case size E4 (4U high)																	C		
<u>Voltage rating</u>																			
DC 12 V																	A		
DC 24 V																	B		
DC 30 V																	C		
DC 50 V																	D		
DC 60 V																	E		
DC 125 V																	F		
DC 220 V																	G		
DC 240 V																	H		
AC 63.5 V																	J	0	
AC 110 V																	K	0	
AC 220 V																	L	0	
AC 240 V																	M	0	
<u>Back EMF suppression diode</u>																			
Not fitted																			0
Fitted																			1

⁸ The number of contacts must match the selected contact arrangement

Ordering information - 7PG111 auxiliary relay (AR131, AR136)

Product description										Order no.																	
										1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16
Auxiliary relay (AR131, AR136)										7	P	G	1	1	1	3	-	1	□	□	□	0	-	0	A	□	□
Single element, self reset flag, size E2, AC or DC voltage operated relay																											
<u>Contact operation</u>																											
Self reset contacts																											
<u>Contact arrangement – NO</u>																											
0 NO																			A								
1 NO																			B								
2 NO																			C								
3 NO																			D								
4 NO																			E								
5 NO																			F								
6 NO																			G								
<u>Contact arrangement – NC</u>																											
0 NC																			A								
1 NC																			B								
2 NC																			C								
3 NC																			D								
4 NC																			E								
5 NC																			F								
6 NC																			G								
<u>Number of contacts</u> ⁹																											
Two																				0							
Four																				1							
Six																				3							
<u>Voltage rating</u>																											
DC 12 V																									A		
DC 24 V																									B		
DC 30 V																									C		
DC 50 V																									D		
DC 60 V																									E		
DC 125 V																									F		
DC 220 V																									G		
DC 240 V																									H		
AC 63.5 V																									J	0	
AC 110 V																									K	0	
AC 220 V																									L	0	
AC 240 V																									M	0	
<u>Back EMF suppression diode</u>																											
Not fitted																										0	
Fitted																										1	

⁹ The number of contacts must match the selected contact arrangement

Technical documentation

Ordering information

Ordering information - 7PG111 auxiliary relay (AR133)

Product description	Order no.																	
	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16
Auxiliary relay (AR133)	7	P	G	1	1	1	3	-	3	□	□	□	0	-	0	A	□	□
Single element, self reset flag, hand and electrical reset contacts, size E2, AC or DC voltage operated relay																		
<u>Contact arrangement – NO</u>																		
0 NO										A								
1 NO										B								
2 NO										C								
3 NO										D								
4 NO										E								
5 NO										F								
6 NO										G								
7 NO										H								
8 NO										J								
<u>Contact arrangement – NC</u>																		
0 NC										A								
1 NC										B								
2 NC										C								
3 NC										D								
4 NC										E								
5 NC										F								
6 NC										G								
7 NC										H								
8 NC										J								
<u>Number of contacts</u> ¹⁰																		
Two												0						
Four												1						
Six												3						
Eight												5						
<u>Voltage rating</u>																		
DC 12 V																	A	
DC 24 V																	B	
DC 30 V																	C	
DC 50 V																	D	
DC 60 V																	E	
DC 125 V																	F	
DC 220 V																	G	
DC 240 V																	H	
AC 63.5 V																	J	0
AC 110 V																	K	0
AC 220 V																	L	0
AC 240 V																	M	0
<u>Back EMF suppression diode</u>																		

¹⁰ The number of contacts must match the selected contact arrangement

Product description	Order no.
Not fitted	0
Fitted	1

Technical documentation

Ordering information

Ordering information - 7PG111 auxiliary relay (AR231)

Product description										Order no.																		
										1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Auxiliary relay (AR231)										7	P	G	1	1	2	3	-	1	□	□	□	0	-	0	□	□	□	
Two element, self reset flag, self reset contacts, AC or DC voltage operated relay																												
<u>Contact arrangement – NO</u>																												
0 NO																			A									
1 NO																			B									
2 NO																			C									
3 NO																			D									
4 NO																			E									
<u>Contact arrangement – NC</u>																												
0 NC																			A									
1 NC																			B									
2 NC																			C									
3 NC																			D									
4 NC																			E									
Number of contacts ¹¹																												
Two																				0					A			
Four																				1					C			
<u>Housing size</u>																												
Case size E2 (4U high)																									A			
Case size E4 (4U high)																								C				
<u>Voltage rating</u>																												
DC 12 V																									A			
DC 24 V																									B			
DC 30 V																									C			
DC 50 V																									D			
DC 60 V																									E			
DC 125 V																									F			
DC 220 V																									G			
DC 240 V																									H			
AC 63.5 V																									J	0		
AC 110 V																									K	0		
AC 220 V																									L	0		
AC 240 V																									M	0		
<u>Back EMF suppression diode</u>																												
Not fitted																										0		
Fitted																										1		

¹¹ The number of contacts must match the selected contact arrangement

Indication of conformity

This product is CE-compliant to relevant EU directives.

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Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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OpenSSL

This product includes software developed by the OpenSSL Project for use in OpenSSL Toolkit (<http://www.openssl.org/>).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

This product includes cryptographic software written by Eric Young (ey@cryptsoft.com).

**Published by
Siemens AG**

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Article no. C53000-X7040-C051-2 (Status 08.2026)

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