

# Siemens 3RE4 Sirius Motor Starter Packages Modular design for effortless ordering

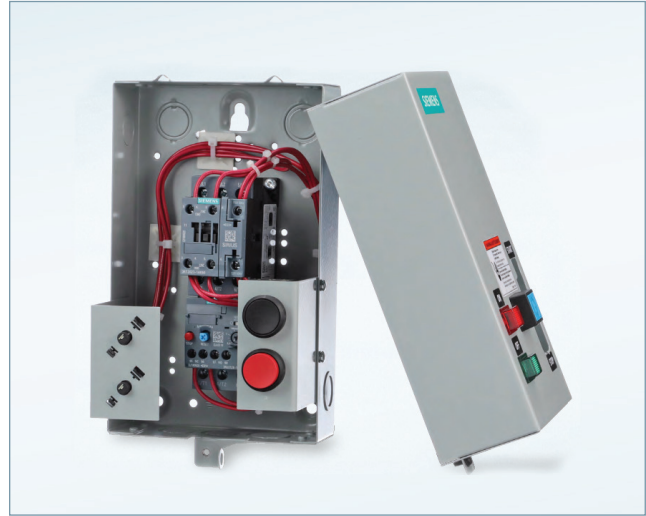
**SIEMENS**

### 3RE4 Enclosed IEC Motor Starter Packages

#### Product overview

3RE4 Enclosed IEC motor starters are well suited for both industrial and commercial applications. They are durable and dependable, particularly when it comes to motor protection. Protecting the performance of motors is a critical priority and the 3RE4 enclosed starters are offered with either thermal or solid-state overload relays (ordered separately) to maximize your motor protection.

Packages include a SIRIUS 3RT2 series contactor inside a NEMA 1 enclosure. They are available with or without control transformers, HAND-OFF-AUTO selector switches, ON-OFF push buttons and pilot lights. Overload relays can be purchased separately and installed in the field.



#### Motor Starter Features

##### General

- From fractional up to 25 Hp at 575 V
- Non-combination type
- Non-reversing
- Single phase and 3-phase loads
- Thermal and solid-state overload relays (sold separately)
- Type 1 enclosures
- RoHS compliant
- Certifications: cULus

#### Overload Relay Features

##### Thermal overload relays

- Trip Class 10
- Phase failure sensitivity
- For single and three phase loads
- Includes NC trip contact and NO alarm contact
- Manual and automatic RESET (selectable)
- Switch position indicator
- TEST function
- STOP button
- Sealable cover (optional)
- Screw-type terminals

#### Available Factory Mods, Field Kits, Accessories

##### Factory modifications

- Push buttons
- Selector switches
- Pilot lights
- Control power transformers

##### Contactor

- Horsepower rated
- High contact reliability
- Auxiliary contact(s) included as standard
- Screw type terminal connections

##### Solid-state overload relays

- Selectable Trip Class 5, 10, 20 and 30
- Overload, phase failure and unbalance protection
- Internal ground fault detection (selectable)
- Internal power supply
- Includes NC trip contact and NO alarm contact
- Manual and automatic RESET (selectable)
- Electrical remote RESET integrated
- Switch position indicator
- TEST function and self-monitoring
- Sealable cover (optional)
- Screw-type terminals

##### Field kits and accessories

- Push buttons
- Selector switches
- Pilot lights
- Auxiliary contacts
- Control power transformers
- Control relays and timers
- Control circuit fuse block
- Terminal blocks
- etc.

## Catalogue Numbering System

### 3RE4 Nomenclature

#### Non-Combination Motor Starters

3RE4 1 6 2 - 5 A A 3 0 - 0 Y Y 0

#### Controller Type

16 = Non-combination non-reversing

#### Frame Size: UL60947-4-1 Hp Rating

15 = S00: 1-Ph Hp (0.25@115V, 0.5@208V, 0.75@230V), 3-Ph Hp (1.5@208V, 2@230V, 3@460V, 5@575V)

17 = S00: 1-Ph Hp (0.5@115V, 1.5@208V, 2@230V), 3-Ph Hp (3@208V, 3@230V, 7.5@460V, 10@575V)

25 = S0: 1-Ph Hp (1@115V, 2@208V, 3@230V), 3-Ph Hp (5@208V, 5@230V, 10@460V, 15@575V)

28 = S0: 1-Ph Hp (3@115V, 5@208V, 5@230V), 3-Ph Hp (10@208V, 10@230V, 25@460V, 25@575V)

#### Enclosure Type and Size

A = NEMA Type 1 - standard size (Select large size enclosure if control transformer or other devices are to be installed on the base of the enclosure)

B = NEMA Type 1 - large size

#### Disconnect Type

A = None

#### Nominal Coil Voltage

3 = 110/120 V AC 50/60Hz

#### Overload Relay Type

0 = (none)

#### Overload Relay Amp Range

0Y = No overload relay

#### Special

Y0 = (none)

B1 = Start-Stop Push Buttons, Red On Pilot Light

B4 = Start-Stop Push Buttons, CPT Std Capacity 208:120V, Red On Pilot Light

C1 = Start-Stop Push Buttons, CPT Std Capacity 240:120V, Red On Pilot Light

C7 = Start-Stop Push Buttons, CPT Std Capacity 480:120V, Red On Pilot Light

P0 = Start-Stop Push Buttons, CPT Std Capacity 600:120V, Red On Pilot Light

F7 = Hand-Off-Auto Selector Switch, Red On Pilot Light

G1 = Hand-Off-Auto Selector Switch, CPT Std Capacity 208:120V, Red On Pilot Light

G7 = Hand-Off-Auto Selector Switch, CPT Std Capacity 240:120V, Red On Pilot Light

H4 = Hand-Off-Auto Selector Switch, CPT Std Capacity 480:120V, Red On Pilot Light

P1 = Hand-Off-Auto Selector Switch, CPT Std Capacity 600:120V, Red On Pilot Light

**Note:**

This catalogue numbering system is presented here merely for information purposes and for better understanding of logic behind article numbers. For your orders, please use the article numbers listed in the Selection section..

## Enclosed Modular IEC Motor Starter Packages

### 3RE4 Non-Reversing Starter, 3-Pole (both 1-Ph and 3-Ph) , Standard NEMA 1 Enclosure

Selection **NEW**



#### Ordering Information

- ▶ Can be converted to a motor starter by installing an overload relay (see page 5).
- ▶ NEMA 1 Enclosure.
- ▶ 110/120 VAC 50/60 Hz coils.
- ▶ For accessories, see page 6 – 7.
- ▶ Only overload relays, pilot devices, pilot lights and fuse blocks can be added to Standard size enclosures - for other accessories, please select controllers in large NEMA 1 enclosures.
- ▶ For replacement parts, see page 7.
- ▶ For dimensions, see page 8.
- ▶ For wiring diagrams, see page 9 – 10.

### Non-Reversing Starter, 3-Pole (for both 1-Phase and 3-Phase), Standard Enclosure


Catalogue Number	Control Transformer <sup>①</sup>	Operator Devices	Unused Aux Contacts		Contactor Ref Number	Frame Size	Maximum HP Rating						
			NO	NC			1-Phase			3-Phase			
							115V	208V	230V	208V	230V	460V	575V
3RE4161-5AA30-0YB1	None	Start-Stop push buttons, red On pilot light	0	0	15	S00	0.25	0.5	0.75	1.5	2	3	5
3RE4161-5AA30-0YF7	None	HOA Selector Switch, red On pilot light	1	0	15	S00	0.25	0.5	0.75	1.5	2	3	5
3RE4161-7AA30-0YY0	None	None	1	0	17	S00	0.5	1.5	2	3	3	7.5	10
3RE4162-5AA30-0YB1	None	Start-Stop push buttons, red On pilot light	0	1	25	S0	1	2	3	5	5	10	15
3RE4162-5AA30-0YF7	None	HOA Selector Switch, red On pilot light	1	1	25	S0	1	2	3	5	5	10	15
3RE4162-8AA30-0YY0	None	None	1	1	28	S0	3	5	5	10	10	25	25

<sup>①</sup> NEMA 1 standard size enclosures don't offer enough space for factory or field installed control transformers. If control transformers are required, please select starter in a NEMA 1 large size enclosure (see page 4).

## Enclosed Modular IEC Motor Starter Packages

### 3RE4 Non-Reversing Starter, 3-Pole (both 1-Ph, 3-Ph), Large NEMA 1 Enclosure

Selection **NEW**

	<h4>Ordering Information</h4> <ul style="list-style-type: none"> <li>▶ Can be converted to a motor starter by installing an overload relay (see page 5).</li> <li>▶ NEMA 1 Enclosure.</li> <li>▶ 110/120 VAC 50/60 Hz coils.</li> <li>▶ For accessories, see page 6 – 7.</li> <li>▶ For replacement parts, see page 7.</li> <li>▶ For dimensions, see page 8.</li> <li>▶ For wiring diagrams, see page 9 – 10.</li> </ul>
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### Non-Reversing Starter, 3-Pole (for both 1-Phase and 3-Phase), Large Enclosure

Catalogue Number	Control Transformer	Operator Devices	Unused Aux Contacts		Contactor Ref Number	Frame Size	Maximum HP Rating						
			NO	NC			1-Phase			3-Phase			
							115V	208V	230V	208V	230V	460V	575V
3RE4161-5BA30-0YP0	600/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	15	S00	—	—	—	—	—	—	5
3RE4161-5BA30-0YB4	208/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	15	S00	—	0.5	—	1.5	—	—	—
3RE4161-5BA30-0YC1	240/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	15	S00	—	—	0.75	—	2	—	—
3RE4161-5BA30-0YC7	480/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	15	S00	—	—	—	—	—	3	—
3RE4161-5BA30-0YP1	600/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	15	S00	—	—	—	—	—	—	5
3RE4161-5BA30-0YG1	208/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	15	S00	—	0.5	—	1.5	—	—	—
3RE4161-5BA30-0YG7	240/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	15	S00	—	—	0.75	—	2	—	—
3RE4161-5BA30-0YH4	480/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	15	S00	—	—	—	—	—	3	—
3RE4161-5BA30-0YY0	None	None	1	0	15	S00	0.25	0.5	0.75	1.5	2	3	5
3RE4161-7BA30-0YP0	600/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	17	S00	—	—	—	—	—	—	10
3RE4161-7BA30-0YB4	208/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	17	S00	—	1.5	—	3	—	—	—
3RE4161-7BA30-0YC1	240/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	17	S00	—	—	2	—	3	—	—
3RE4161-7BA30-0YC7	480/120V, 45VA	Start-Stop push buttons, red On pilot light	0	0	17	S00	—	—	—	—	—	7.5	—
3RE4161-7BA30-0YP1	600/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	17	S00	—	—	—	—	—	—	10
3RE4161-7BA30-0YG1	208/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	17	S00	—	1.5	—	3	—	—	—
3RE4161-7BA30-0YG7	240/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	17	S00	—	—	2	—	3	—	—
3RE4161-7BA30-0YH4	480/120V, 45VA	HOA Selector Switch, red On pilot light	1	0	17	S00	—	—	—	—	—	7.5	—
3RE4161-7BA30-0YY0	None	None	1	0	17	S00	0.5	1.5	2	3	3	7.5	10
3RE4162-5BA30-0YP0	600/120V, 75VA	Start-Stop push buttons, red On pilot light	0	1	25	S0	—	—	—	—	—	—	15
3RE4162-5BA30-0YP1	600/120V, 75VA	HOA Selector Switch, red On pilot light	1	1	25	S0	—	—	—	—	—	—	15
3RE4162-8BA30-0YP0	600/120V, 75VA	Start-Stop push buttons, red On pilot light	0	1	28	S0	—	—	—	—	—	—	25
3RE4162-8BA30-0YB4	208/120V, 75VA	Start-Stop push buttons, red On pilot light	0	1	28	S0	—	5	—	10	—	—	—
3RE4162-8BA30-0YC1	240/120V, 75VA	Start-Stop push buttons, red On pilot light	0	1	28	S0	—	—	5	—	10	—	—
3RE4162-8BA30-0YC7	480/120V, 75VA	Start-Stop push buttons, red On pilot light	0	1	28	S0	—	—	—	—	—	25	—
3RE4162-8BA30-0YP1	600/120V, 75VA	HOA Selector Switch, red On pilot light	1	1	28	S0	—	—	—	—	—	—	25
3RE4162-8BA30-0YG1	208/120V, 75VA	HOA Selector Switch, red On pilot light	1	1	28	S0	—	5	—	10	—	—	—
3RE4162-8BA30-0YG7	240/120V, 75VA	HOA Selector Switch, red On pilot light	1	1	28	S0	—	—	5	—	10	—	—
3RE4162-8BA30-0YH4	480/120V, 75VA	HOA Selector Switch, red On pilot light	1	1	28	S0	—	—	—	—	—	25	—
3RE4162-8BA30-0YY0	None	None	1	1	28	S0	3	5	5	10	10	25	25

Selection Tables for 3RE4 Overload Relays



**Thermal Overload Relays, Trip Class 10, Single and Three Phase**

Features and technical characteristics:

- Phase failure sensitivity
- Includes NC trip contact and NO alarm contact
- Manual and automatic RESET (selectable)
- Switch position indicator
- TEST function
- STOP button
- Sealable cover (optional)
- Screw-type terminals

Current Adjustment Range (Amp)	Thermal Overload Relay (reference only)
<b>Frame Size S00</b>	
0.7 - 1	3RU2116-0JB0
0.9 - 1.25	3RU2116-0KB0
1.1 - 1.6	3RU2116-1AB0
1.4 - 2	3RU2116-1BB0
1.8 - 2.5	3RU2116-1CB0
2.2 - 3.2	3RU2116-1DB0
2.8 - 4	3RU2116-1EB0
3.5 - 5	3RU2116-1FB0
4.5 - 6.3	3RU2116-1GB0
5.5 - 8	3RU2116-1HB0
7 - 10	3RU2116-1JB0
9 - 12.5	3RU2116-1KB0
11 - 16	3RU2116-4AB0

Current Adjustment Range (Amp)	Thermal Overload Relay (reference only)
<b>Frame Size S0</b>	
1.8 - 2.5	3RU2126-1CB0
2.2 - 3.2	3RU2126-1DB0
2.8 - 4	3RU2126-1EB0
3.5 - 5	3RU2126-1FB0
4.5 - 6.3	3RU2126-1GB0
5.5 - 8	3RU2126-1HB0
7 - 10	3RU2126-1JB0
9 - 12.5	3RU2126-1KB0
11 - 16	3RU2126-4AB0
14 - 20	3RU2126-4BB0
17 - 22	3RU2126-4CB0
20 - 25	3RU2126-4DB0
23 - 28	3RU2126-4NB0
27 - 32	3RU2126-4EB0
30 - 36	3RU2126-4PB0
34 - 40	3RU2126-4FB0

**Solid-State Overload Relays, Selectable Trip Class 5, 10, 20 and 30, Three Phase Only**

Features and technical characteristics:

- Overload, phase failure and unbalance protection
- Internal ground fault detection (selectable)
- Internal power supply
- Includes NC trip contact and NO alarm contact
- Manual and automatic RESET (selectable)
- Electrical remote RESET integrated
- Switch position indicator
- TEST function and self-monitoring
- Sealable cover (optional)
- Screw-type terminals

Current Adjustment Range (Amp)	Solid-State Overload Relay (reference only)
<b>Frame Size S00</b>	
0.32 - 1.25	3RB3113-4NB0
1 - 4	3RB3113-4PB0
3 - 12	3RB3113-4SB0
4 - 16	3RB3113-4TB0




Current Adjustment Range (Amp)	Solid-State Overload Relay (reference only)
<b>Frame Size S0</b>	
0.32 - 1.25	3RB3123-4NB0
1 - 4	3RB3123-4PB0
3 - 12	3RB3123-4SB0
6 - 25	3RB3123-4QB0
10 - 40	3RB3123-4VB0

# Enclosed Modular IEC Motor Starter Packages


## 3RE4 Field Modifications and Accessories

Selection **NEW**

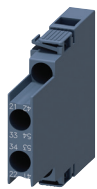
### Pilot Devices

	Device <sup>①</sup>	Enclosure NEMA Type	Catalogue Number
 <p>49SDSBJ      49SDSB4</p>	Start-Stop Push Buttons, momentary <sup>②</sup>	1	49SDPB5
 <p>Start Push Button      Stop Push Button</p>	Hand-Off-Auto Selector Switch	1	49SDSBJ
 <p>2-Position Selector Switch      3-Position Selector Switch</p>	On-Off Selector Switch	1	49SDSB4

### Pilot Lights

	Device <sup>①</sup>	Enclosure NEMA Type	Voltage	Catalogue Number
	Light module and lens color: RED, GREEN, and AMBER. Legends include: ON, RUN, OFF <sup>③</sup> , OLR TRIPPED <sup>④</sup>	1	24 to 240 V AC/DC	49SDLBU

### Auxiliary Contacts

	Device	Frame Size	Catalogue Number
	1 NO & 1 NC laterally mounted, screw terminals	S00	3RH2911-1DA11
		S0 and S2	3RH2921-1DA11
	2 NO laterally mounted, screw terminals	S00	NA
		S0 and S2	3RH2921-1DA20
	2 NC laterally mounted, screw terminals	S00	3RH2911-1DA02
		S0 and S2	3RH2921-1DA02

① 3SU 22 mm devices. Pilot lights include LED bulbs.  
 ② Each contactor must have a normally open (NO) auxiliary contact available for seal-in circuit. Order separately as needed.

③ To use as an OFF indicator, the contactor must have a normally closed (NC) auxiliary contact available for the circuit. Order separately as needed.


④ To use as an overload relay (OLR) trip indicator, the OLR must have a normally open (NO) auxiliary contact available for the circuit.

## Enclosed Modular IEC Motor Starter Packages

### 3RE4 Field Modifications, Accessories, and Replacement Parts


Selection **NEW**

#### Control Power Transformers<sup>①</sup>


	Device	Frame Size	Catalogue Number	Transformer Table		
				Primary Volts	Secondary Volts	Code
	45 VA, 1-secondary fuse	S00	<b>KT*050</b>	—	—	—
	75 VA, 2-primary and 1-secondary fuses	S0	<b>KT*075</b>	—	—	—
				208	120	H
				240/480	120	8
				600	120	9

▶ Replace \* with code from Transformer Table.  
 ▶ 45VA CPT does not require primary fuses per NEC.


#### Control Relays and Timers<sup>①②</sup>

	Device	Catalogue Number
 <p>Relay      Timer</p>	Control relay, 4 NO / 0 NC, 110/120 VAC	<b>3RH2140-1AK60</b>
	Control relay, 3 NO / 1 NC, 110/120 VAC	<b>3RH2131-1AK60</b>
	Control relay, 2 NO / 2 NC, 110/120 VAC	<b>3RH2122-1AK60</b>
	ON-delay timer, 0.05 sec. – 100 hr., 24 – 240V AC/DC	<b>3RP2525-1BW30</b>
	OFF-delay timer, 0.05 sec. – 100 hr., 24 – 240V AC/DC	<b>3RP2535-1AW30</b>
		▶ Relays and timers include screw terminals.


#### Miscellaneous

	Device	Catalogue Number
 <p>3NW7513-0HG      8WA1808</p> <p>75D28182001      MTR5</p>	1-pole fuse block for control circuit, 600V / 30A, DIN rail mounted, CC fuses (not included)	<b>3NW7513-0HG</b>
	2-pole fuse block for control circuit, 600V / 30A, DIN rail mounted, CC fuses (not included)	<b>3NW7523-0HG</b>
	Ground Lug, 3 Conductor, 2-14 AWG AL/CU Wire	<b>75D28182001</b>
	Terminal block, 1-point unwired, DIN rail mounted, 6mm, 26A <sup>②</sup>	<b>8WA1011DF11</b>
	End retainer for DIN rail <sup>②</sup>	<b>8WA1808</b>
	DIN rail kit, 35mm x 5 in, for mounting optional accessories <sup>①</sup>	<b>MTR5</b>
	Sealable cover for rotary dial on 3RU2 thermal overload relay (10 per package)	<b>3RV29 08-0P</b>

#### Replacement Parts

	Device	Catalogue Number
	Contactors parts (Obtain Cat. No. from device and refer to Industrial Control Catalogue).	—
	Overload relay (Obtain Cat. No. from device and refer to Industrial Control Catalogue).	—
	Overload Relay Reset Operator for all NEMA Type enclosures	<b>49MBRS</b>

#### Enclosure Kits

	Controller Frame Size & Type NR = Non-Reversing R = Reversing	Type 1	Type 1
		Standard Size	Large Size <sup>③</sup>
		Catalogue Number	Catalogue Number
	S00 NR, S0 NR	<b>49EC14EB110705R</b>	<b>49EC14GB140807R<sup>③</sup></b>

① The accessory in a NEMA type 1 enclosure requires a large size enclosure.

② Requires DIN rail kit or equivalent.

③ Enclosure 49EC14GB140807R requires mounting adaptor plate 49EFA070500XXA which is sold separately.

④ These large enclosures are required for certain accessories as indicated in the Field Modification pages.



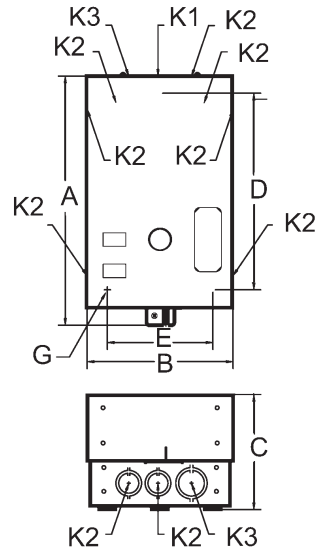


Figure 1

3RE4 Non-Combination Type Controllers

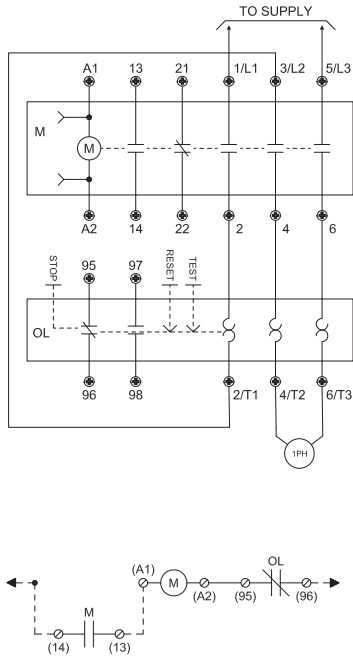
Enclosure Type	Contactor Rating	Fig.	Outline Dimensions			Mounting		Conduit Size		
			A	B	C	D	E	K1	K2	K3
1 (standard size)	S00 NR, S0 NR	1	10.97	6.41	5.03	8.22	4.62	0.5	0.50-0.75	0.75-1
1 (large size)	S00 NR, S0 NR	1	13.53	7.97	6.38	10.25	6.00	0.50-0.75	0.75-1	1-1.25

Sxx = Frame size; NR = Non-reversing

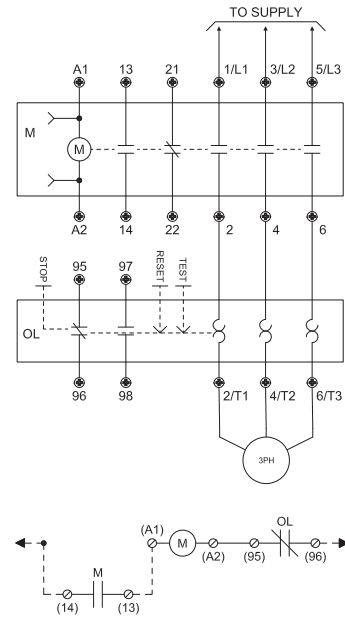
Mounting screw G is 0.25"

Dimensions are in inches.

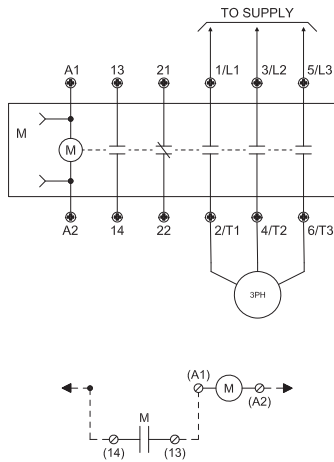
**Non-combination non-reversing starter, 1-phase, 2-pole**



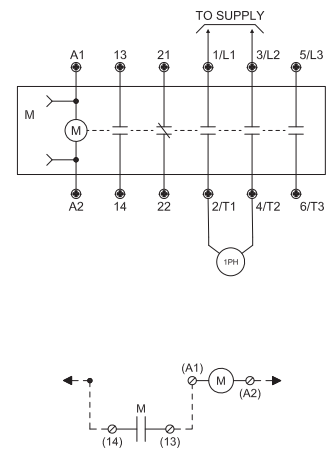
**Non-combination non-reversing starter, 3-phase, 3-pole**



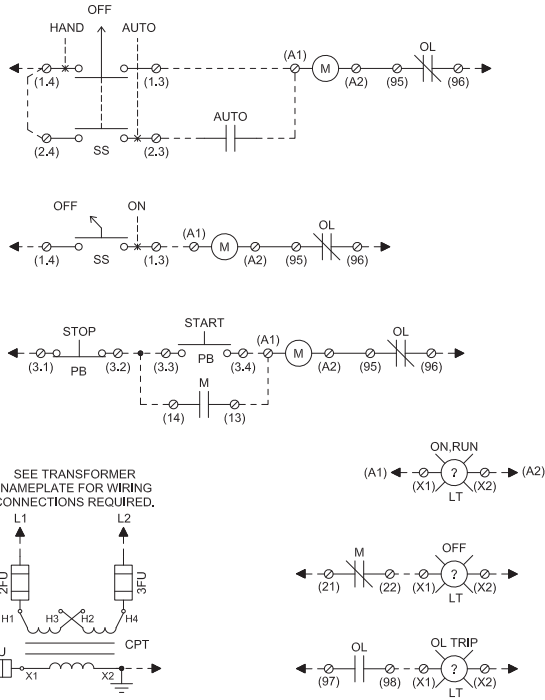
**Non-combination non-reversing contactor, 3-phase, 3-pole**



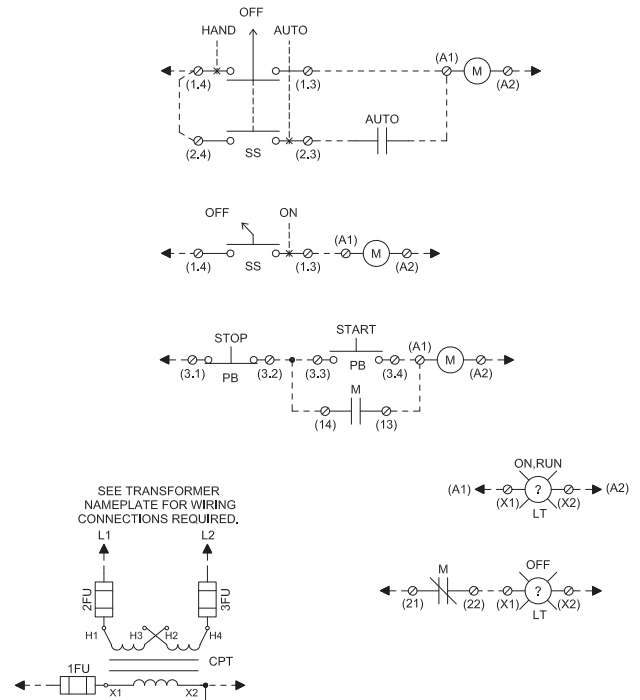
**Non-combination non-reversing contactor, 1-phase, 2-pole**



**Control options for non-reversing starters**



**Control options for non-reversing contactors**



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