

Non-reversing motor starter, Size 4, Three phase full voltage, Solid-state overload relay, OLRelay amp range 50-200A, 110 120/220 240VAC 60HZ coil, Non-combination type, Enclosure type 4X Fiberglass, Water/dust tight noncorrosive, Standard width enclosure



Figure similar

Product brand name	Class 14
Design of the product	Full-voltage non-reversing motor starter
Special product feature	ESP200 overload relay; Dual voltage coil
<b>General technical data</b>	
Weight [lb]	43 lb
Height x Width x Depth [in]	24 x 24 x 7 in
Protection against electrical shock	(NA for enclosed products)
Installation altitude [ft] at height above sea level maximum	6560 ft
Ambient temperature [°F]	
• during storage	-22 ... +149 °F
• during operation	-4 ... +104 °F
Ambient temperature	
• during storage	-30 ... +65 °C
• during operation	-20 ... +40 °C
Country of origin	USA
<b>Horsepower ratings</b>	

Yielded mechanical performance [hp] for three-phase AC motor	
• at 200/208 V rated value	40 hp
• at 220/230 V rated value	50 hp
• at 460/480 V rated value	100 hp
• at 575/600 V rated value	100 hp

Contactor	
Size of contactor	NEMA controller size 4
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	135 A
Mechanical service life (switching cycles) of the main contacts typical	5000000

Auxiliary contact	
Number of NC contacts at contactor for auxiliary contacts	0
Number of NO contacts at contactor for auxiliary contacts	1
Number of total auxiliary contacts maximum	7
Contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)

Coil	
Type of voltage of the control supply voltage	AC
Control supply voltage	
• at AC at 60 Hz rated value	110 ... 240 V
Holding power at AC minimum	22 W
Apparent pick-up power of magnet coil at AC	510 V·A
Apparent holding power of magnet coil at AC	51 V·A
Operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
Percental drop-out voltage of magnet coil related to the input voltage	50 %
Switch-on delay time	18 ... 34 ms
Off-delay time	10 ... 12 ms

Overload relay	
Product function	
• Overload protection	Yes
• Phase failure detection	Yes
• Phase unbalance	Yes
• Ground fault detection	Yes
• Test function	Yes

• External RESET	Yes
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
Adjustable pick-up value current of the current-dependent overload release	50 ... 200 A
Trip time at phase-loss maximum	3 s
Relative repeat accuracy	1 %
Product feature Protective coating on printed-circuit board	Yes
Number of NC contacts of auxiliary contacts of overload relay	1
Number of NO contacts of auxiliary contacts of overload relay	1
Operating current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1 A
Contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
Insulation voltage	
• with single-phase operation at AC rated value	600 V
• with multi-phase operation at AC rated value	300 V

#### Enclosure

Degree of protection NEMA rating of the enclosure	NEMA 4X fiberglass enclosure
Design of the housing	Dust-tight, watertight & corrosion resistant

#### Mounting/wiring

Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage line-side	Box lug
Tightening torque [lbf·in] for supply	200 ... 200 lbf·in
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	1x(6 AWG - 250 MCM)
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	CU
Type of electrical connection for load-side outgoing feeder	Box lug
Tightening torque [lbf·in] for load-side outgoing feeder	200 ... 200 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x(6 AWG - 250 MCM)

Temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder	CU
Type of electrical connection of magnet coil	screw-type terminals
Tightening torque [lbf·in] at magnet coil	5 ... 12 lbf·in
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded	2 x (16 - 12 AWG)
Temperature of the conductor at magnet coil maximum permissible	75 °C
Material of the conductor at magnet coil	CU
Type of electrical connection for auxiliary contacts	screw-type terminals
Tightening torque [lbf·in] at contactor for auxiliary contacts	10 ... 15 lbf·in
Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)
Temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
Material of the conductor at contactor for auxiliary contacts	CU
Type of electrical connection at overload relay for auxiliary contacts	screw-type terminals
Tightening torque [lbf·in] at overload relay for auxiliary contacts	7 ... 10 lbf·in
Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded	2 x (20 - 14 AWG)
Temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
Material of the conductor at overload relay for auxiliary contacts	CU

#### Short-circuit current rating

Design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
Design of the short-circuit trip	Thermal magnetic circuit breaker
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	10 kA
• at 480 V	10 kA
• at 600 V	10 kA
Certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14

#### Further information

**Industrial Controls - Product Overview (Catalogs, Brochures,...)**  
[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14JUH32FA>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

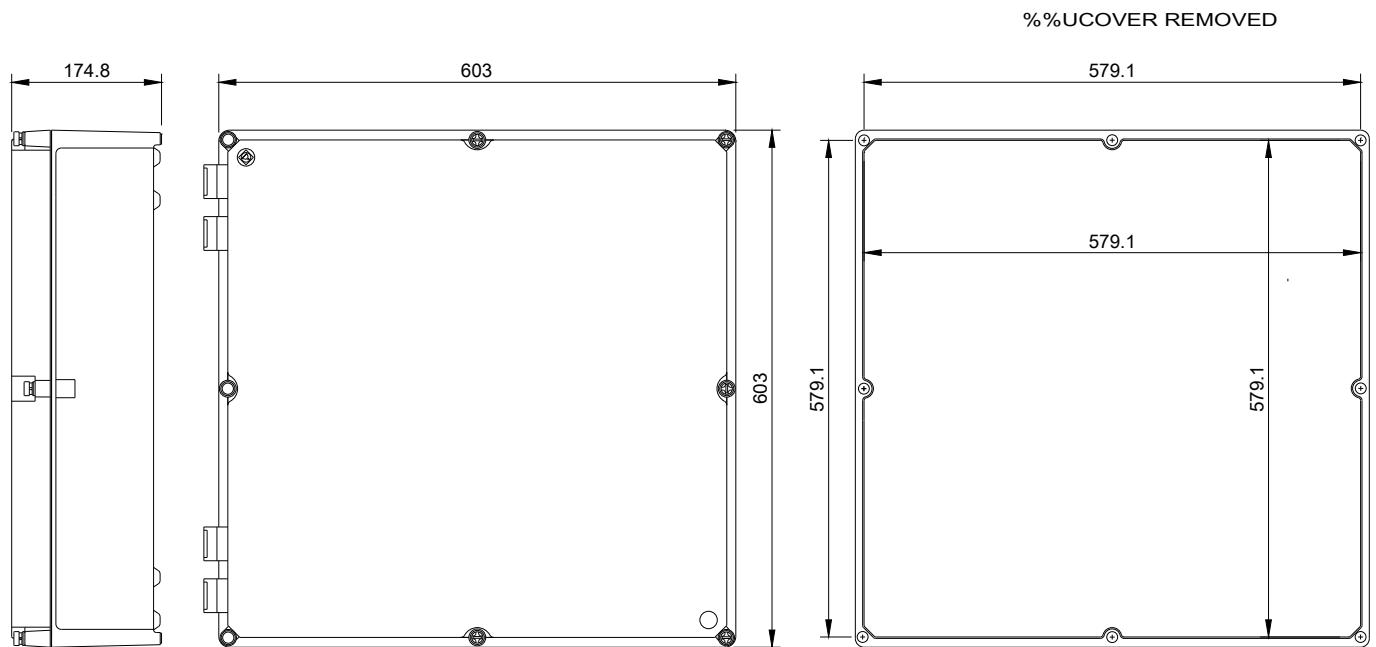
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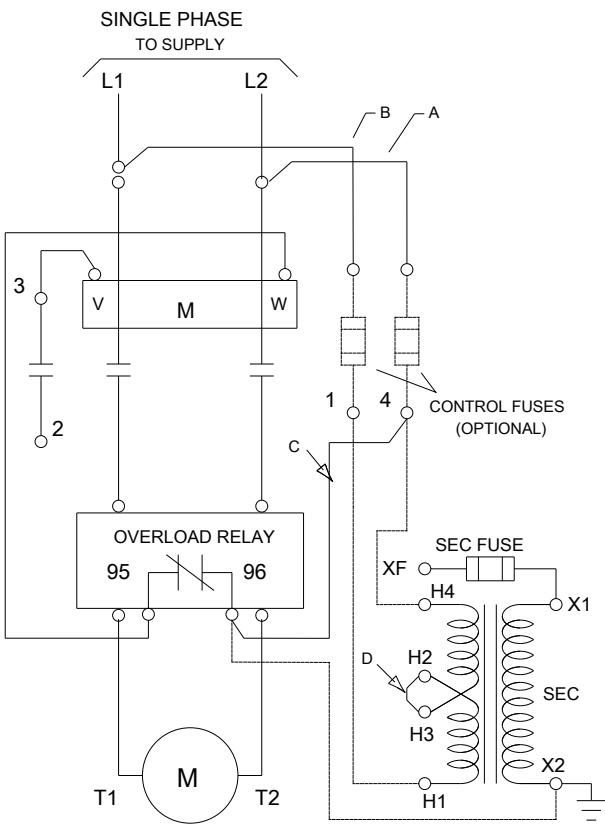
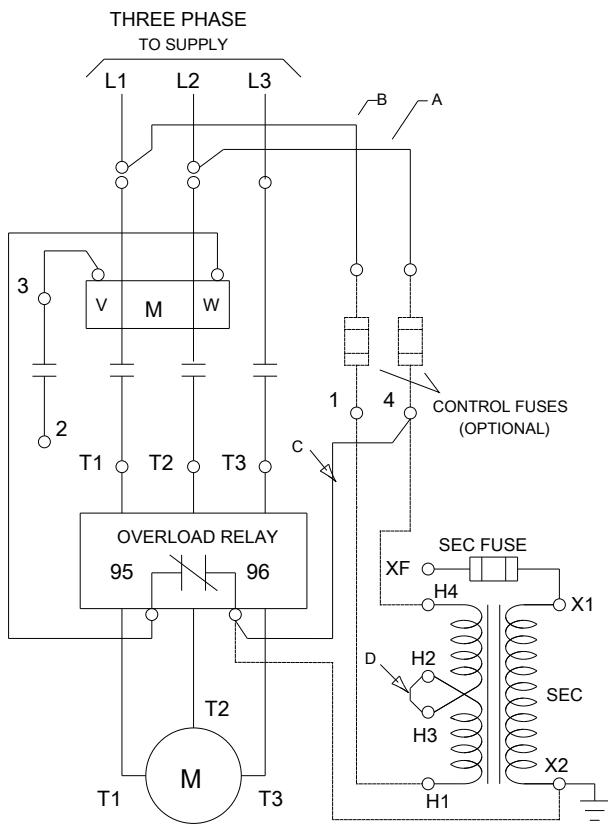
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14JUH32FA&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14JUH32FA&lang=en)

**Certificates/approvals**

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