

Non-reversing motor starter Size 3 1/2 Three phase full voltage Solid-state overload relay OLRelay amp range 50-200A 110VAC 50HZ / 120VAC 60HZ coil Combination type 200A non-fusible disconnect Encl NEMA type 4X 316 S-steel Water/dust tight non-corrosive Standard width enclosure



Figure similar

Product brand name	Class 17 & 25
Design of the product	Non-reversing motor starter with non-fusible disconnect
Special product feature	ESP200 overload relay; Half-size controller

General technical data

Height x Width x Depth [in]	36 × 24 × 8 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 maximum	149 °F
• during operation maximum	104 °F
Ambient temperature	
• during storage maximum	65 °C
• during operation maximum	40 °C

Horsepower ratings

Yielded mechanical performance [hp] for three-phase AC motor	
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- at 200/208 V rated value 30 hp
- at 220/230 V rated value 40 hp
- at 460/480 V rated value 75 hp
- at 575/600 V rated value 75 hp

Contactors

Size of contactor	Controller half size 3 1/2
Number of NO contacts for main contacts	3
Operating current at AC at 600 V rated value	115 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	
<ul style="list-style-type: none"> • at AC at 50 Hz rated value • at AC at 60 Hz rated value 	110 V 120 V
Holding power at AC minimum	14 W
Apparent pick-up power of magnet coil at AC	310 V·A
Apparent holding power of magnet coil at AC	26 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	26 ... 41 ms
Off-delay time	14 ... 19 ms

Overload relay

Product function	
<ul style="list-style-type: none"> • Overload protection • Phase failure detection • Phase unbalance • Ground fault detection • Test function • External reset 	Yes Yes Yes Yes Yes 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
Make time with automatic start after power failure 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

Disconnect Switch

Rated response values of switch disconnector	200A / 600V
Design of fuse holder	non-fusible
Operating class of the fuse link	non-fusible

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	275 ... 275 lbf·in
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	AL or CU
Type of electrical connection for load-side outgoing feeder	Box lug
Tightening torque [lbf·in] for load-side outgoing feeder	120 ... 120 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (14 ... 2/0 AWG)
Temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder	AL or 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	2x (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	1x (12 AWG), 2x (16 ... 14 AWG), 2x (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	2x (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)
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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17IUH92XF>

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

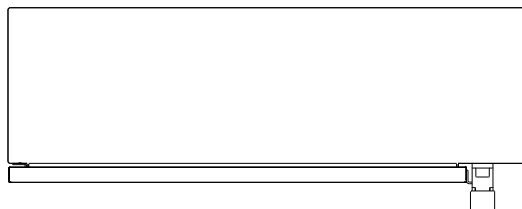
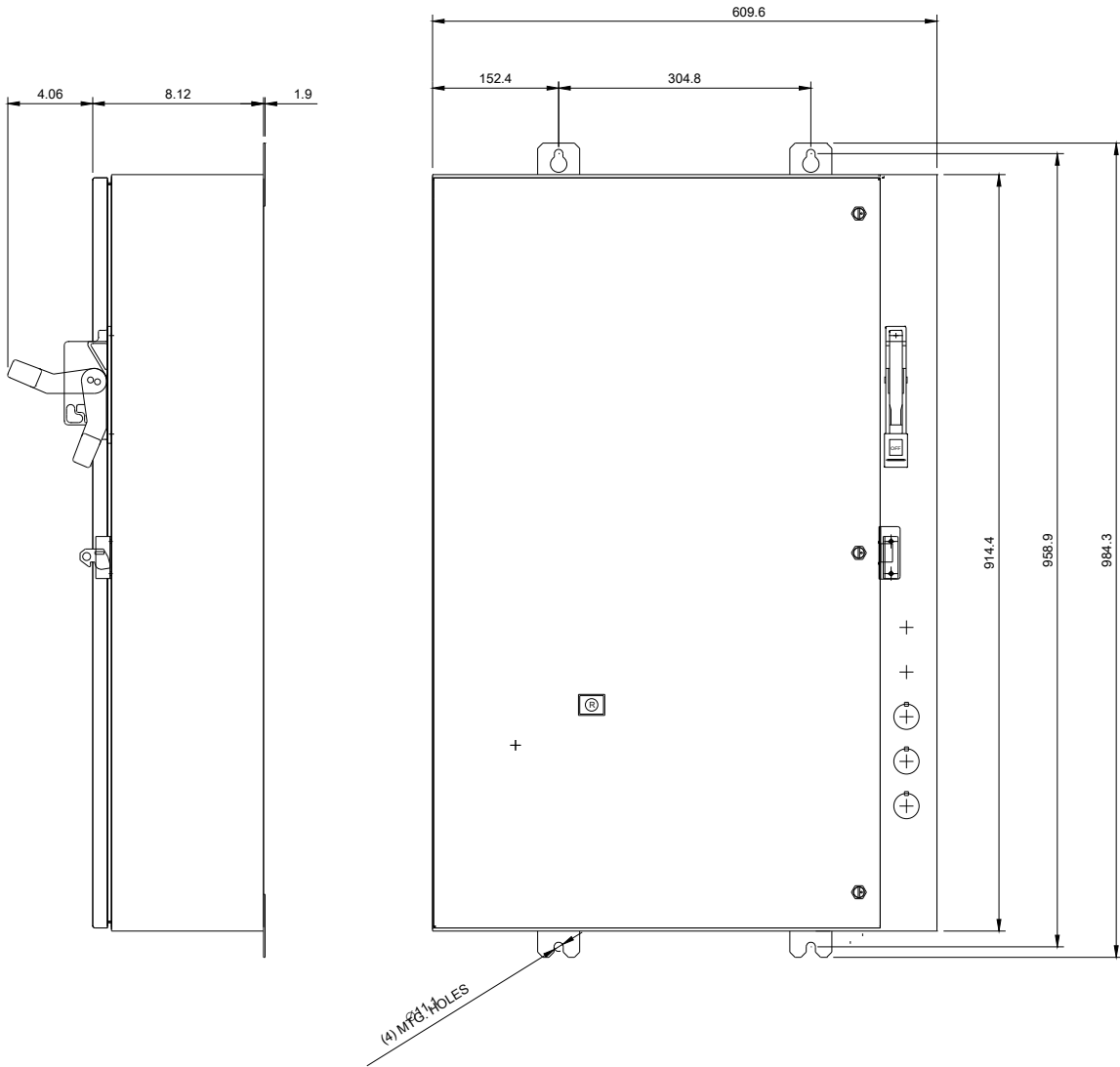
<https://support.industry.siemens.com/cs/US/en/ps/US2:17IUH92XF>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17IUH92XF&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:17IUH92XF/certificate>





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