



Figure similar

Non-reversing motor starter, Size 8, Three phase full voltage, Solid-state overload relay, OLR amp range 400-1200A, 100-250V 50-60Hz/DC coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	297 lb
Height x Width x Depth [in]	79 × 22 × 13 in
touch 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
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0 hp
• at 220/230 V rated value	450 hp
• at 460/480 V rated value	900 hp
• at 575/600 V rated value	900 hp
Contactors	
size of contactor	NEMA controller size 8
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	1215 A
mechanical service life (operating cycles) of the main contacts typical	500000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	1
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
• at DC rated value	100 ... 250 V
• at AC at 50 Hz rated value	100 ... 250 V
• at AC at 60 Hz rated value	100 ... 250 V

holding power at AC minimum	17 W
apparent pick-up power of magnet coil at AC	1900 VA
apparent holding power of magnet coil at AC	48 VA
operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
percentual drop-out voltage of magnet coil related to the input voltage	55 %
ON-delay time	50 ... 80 ms
OFF-delay time	35 ... 55 ms

Overload relay

product function	
<ul style="list-style-type: none"> • overload protection • phase failure detection • asymmetry detection • ground fault detection • test function • external reset 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-dependent overload release	400 ... 1220 A
tripping 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
operational current of auxiliary contacts of overload relay	
<ul style="list-style-type: none"> • at AC at 600 V • at DC at 250 V 	<ul style="list-style-type: none"> 5 A 1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
<ul style="list-style-type: none"> • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 	<ul style="list-style-type: none"> 600 V 300 V

Enclosure

degree of protection NEMA rating	1
design of the housing	Indoor general purpose use

Mounting/wiring

mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	bus bar (M12 screws/bolts)
tightening torque [lbf-in] for supply	398 ... 398 lbf-in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1/0 AWG - 750 MCM
temperature of the conductor for supply maximum permissible	75 °C
type of electrical connection for load-side outgoing feeder	Bus Bar (M12 Screws/Bolts)
tightening torque [lbf-in] for load-side outgoing feeder	398 ... 398 lbf-in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1/0 AWG - 750 MCM
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
type of electrical connection of magnet coil	screw-type terminals
tightening torque [lbf-in] at magnet coil	7 ... 10 lbf-in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2 x (18 - 14 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	9 ... 9 lbf-in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	2 x (18 - 14 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 cables 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	85kA@600V (Class R or L)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (I _{cu})	
• at 240 V	0 kA
• at 480 V	0 kA
• at 600 V	0 kA
certificate of suitability	NEMA ICS 2; UL 508A

Further information

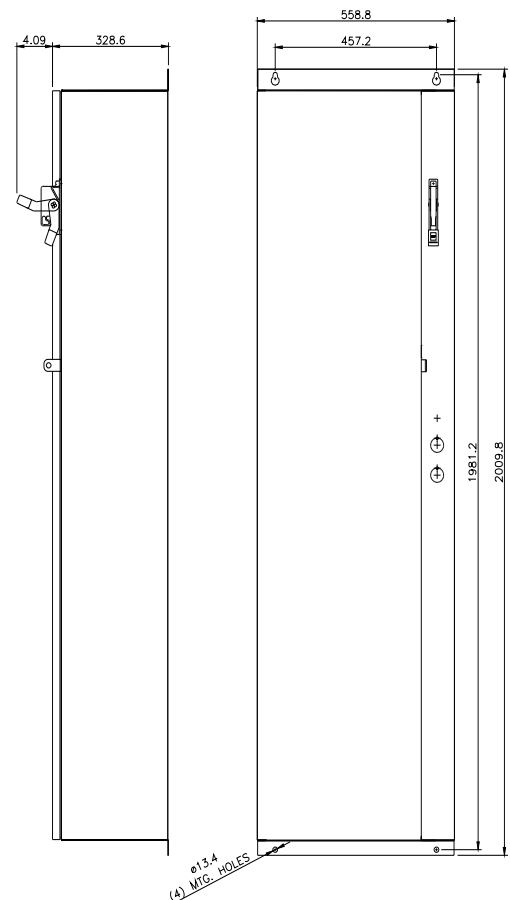
Industrial Controls - Product Overview (Catalogs, Brochures,...)
www.usa.siemens.com/iccatalog

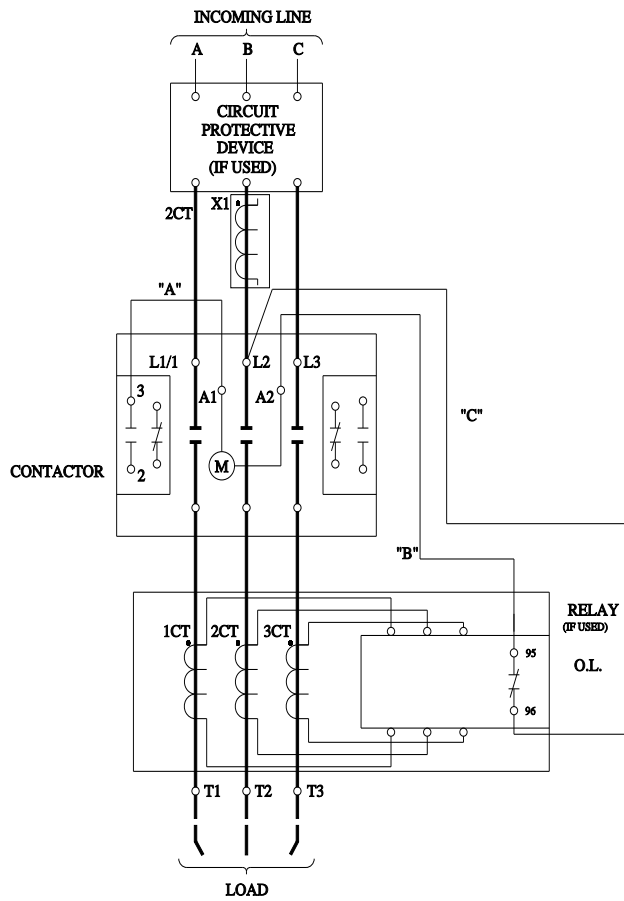
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