



Figure similar

Non-reversing motor starter, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

product brand name
design of the product
special product feature

Class 14
Full-voltage non-reversing motor starter
ESP200 overload relay; Dual voltage coil

General technical data

weight [lb] 35 lb
Height x Width x Depth [in] 25 × 14 × 9 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 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

Contactors

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
operational current at AC at 600 V rated value 135 A
mechanical service life (operating 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 VA
apparent holding power of magnet coil at AC	51 VA
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 %
ON-delay time	18 ... 34 ms
OFF-delay time	10 ... 12 ms

Overload relay

product function	Yes
• overload protection	Yes
• phase failure detection	Yes
• asymmetry detection	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 current response value current of the current-dependent overload release	50 ... 200 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	
• 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 (Ui)	
• 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	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	Box lug
tightening torque [lbf-in] for supply	200 ... 200 lbf-in
type of connectable conductor cross-sections at line-side at AWG cables 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 cables 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 cables 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	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)

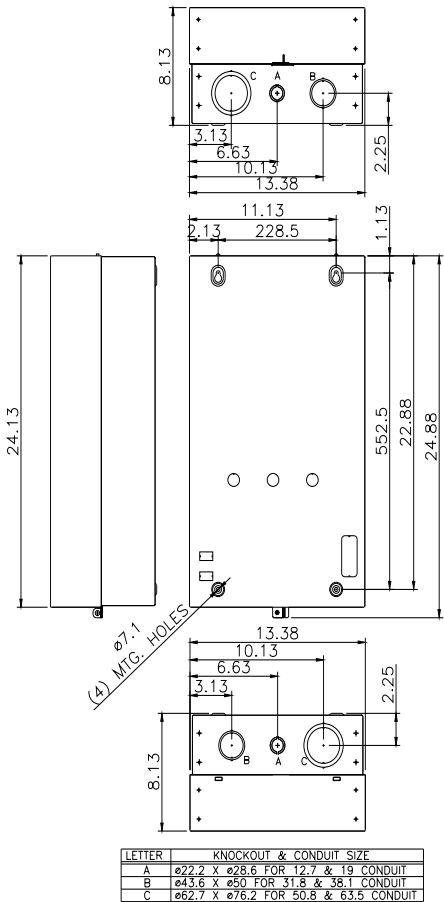
at AWG cables for auxiliary contacts single or multi-stranded	
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	screw-type 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

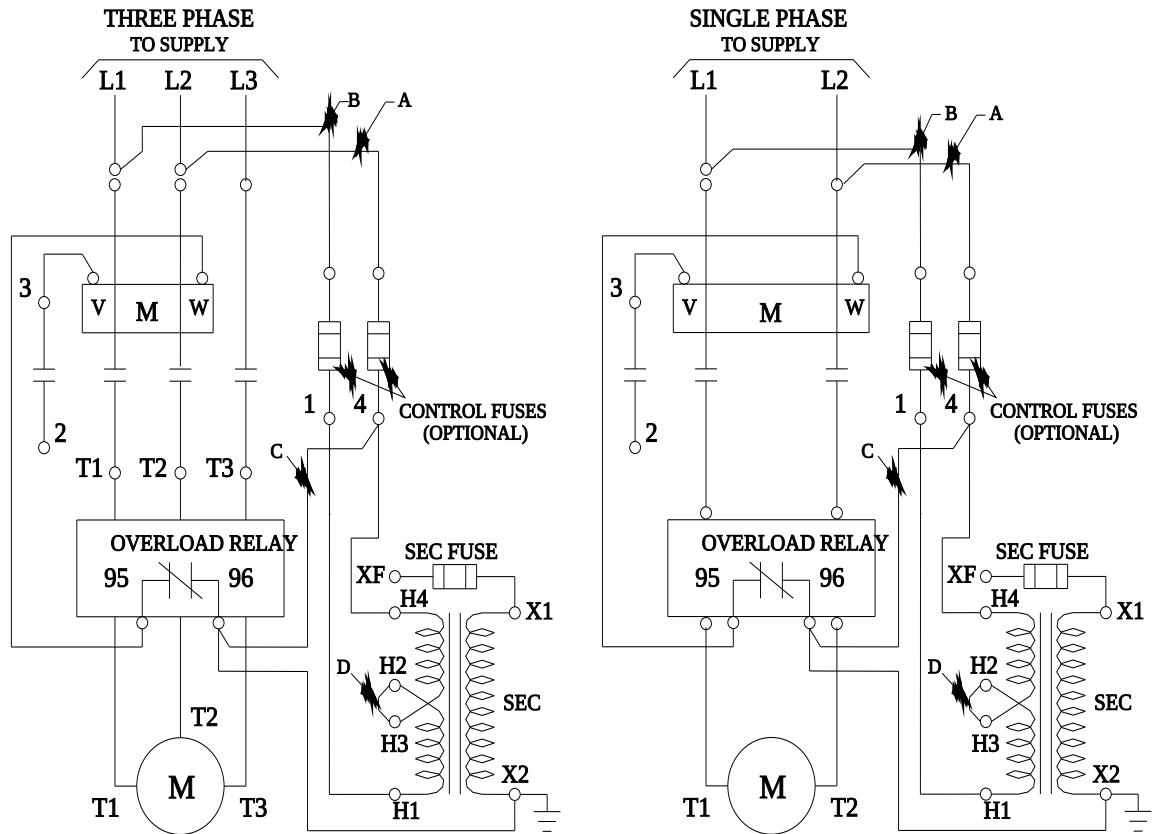
Short-circuit current rating

design of the fuse link for short-circuit protection of the main circuit required	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 - at 480 V - at 600 V	10 kA 10 kA 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
 Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14JUH32BA>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/US/en/ps/US2:14JUH32BA>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14JUH32BA&lang=en
 Certificates/approvals
<https://support.industry.siemens.com/cs/US/en/ps/US2:14JUH32BA/certificate>





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