SIEMENS

Data sheet US2:22FUF32BA

Reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure





contactor cont		
Sepecial product feature ESP200 overload relay	product brand name	Class 22
weight [Ib] 25 lb Height XWidth X Depth [in] 20 x 12 x 8 in touch protection against electrical shock NA for enclosed products installation altitude (If) 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 15 hp • at 220/230 V rated value 25 hp • at 460/480 V rated value 25 hp Contactor size of contactor Network for main contacts operational current at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NO contacts at contactor for auxillary contacts on mumber of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts 1 10 240 V holding power at AC milhimum a 8.6 W apparent pick-up power of magnet coil at AC 218 VA	design of the product	Full-voltage reversing motor starter
Weight [b] 25 b Height x Width x Depth [in] 20 x 12 x 8 in touch protection against electrical shock NA for enclosed products installation altitude [it] at height above sea level maximum 6560 ft ambient temperature F	special product feature	ESP200 overload relay
Height x Wirdth x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation - 20 +40 °F country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxilliary contact number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts Auxilliary contact number of NC contacts at contactor for auxilliary contacts hybical number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NC contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number of NO contacts at contactor for auxilliary contacts number	General technical data	
touch protection against electrical shock installation altitude (If) at height above sea level maximum ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during	weight [lb]	25 lb
installation altitude [ft] at height above sea level maximum ambient temperature [FF] • during storage • during operation • during storage • during storage • during storage • during operation • during storage • during operation • 20 +65 °C • during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60/480 V rated value • at 675/600 V rated value • at 675/6	Height x Width x Depth [in]	20 × 12 × 8 in
installation altitude [ft] at height above sea level maximum ambient temperature [FF] • during storage • during operation • during storage • during storage • during storage • during operation • during storage • during operation • 20 +65 °C • during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60/480 V rated value • at 675/600 V rated value • at 675/6	touch protection against electrical shock	NA for enclosed products
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ambient temperature • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 456/480 V rated value • at 575/600 V rated value • at 60 rate value 25 hp Contactor size of contactor number of NO contacts for main contacts a operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 1 0000000 typical Auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC	during storage	-22 +149 °F
during storage during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 250/230 V rated value at 460/480 V rated value at 575/600 V rated value by at 575/600 V rated value contactor Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value at AC at 60 Hz rated value holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	during operation	-4 +104 °F
during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value at 420/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value isize of contactor Size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value in AC at 60 Hz rat	ambient temperature	
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yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 25 hp • at 575/600 V rated value Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 10000000 Auxiliary contact number of NC contacts at contactor for auxiliary contacts 1 contact rating of auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 456/600 V rated value • at 55/600 V rated value • 25 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 10000000 Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 110 hp 10	country of origin	USA
at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 25 hp contactor size of contactor size of contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts rypical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value 100 hp 15 hp 15 hp 16	Horsepower ratings	
at 220/230 V rated value at 460/480 V rated value 25 hp tontactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (operating cycles) of the main contacts humber of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	yielded mechanical performance [hp] for 3-phase AC motor	
at 460/480 V rated value at 575/600 V rated value 25 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rounder at at auxiliary contacts of contactor according to UL Total auxiliary contacts of total auxiliary contacts of contactor according to UL Total auxiliary contacts of total auxiliary contacts of contactor according to UL Tot	• at 200/208 V rated value	10 hp
• at 575/600 V rated value Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum roundact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC NEMA controller size 2 NEMA controller size 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• at 220/230 V rated value	15 hp
size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rocontact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC NEMA controller size 2 3 NEMA controller size 2 3 600 V 45 A 10000000 100000000 45 A 100000000 100000000 10000000000000	• at 460/480 V rated value	25 hp
size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum as a contact at Conta	• at 575/600 V rated value	25 hp
number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rocontact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC 218 VA	Contactor	
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maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rocontact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum and the main contacts 10000000 10000000 100000000 1000000	number of NO contacts for main contacts	3
mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC 10000000 10000000 1000000000000000		600 V
Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC avxiliary contacts 0 10 10A@600VAC (A600), 5A@600VDC (P600) AC 10A 240 V 8.6 W 218 VA	operational current at AC at 600 V rated value	45 A
number of NC contacts at contactor for auxiliary contacts 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		10000000
number of NO contacts at contactor for auxiliary contacts 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	Auxiliary contact	
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contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC 10A@600VAC (A600), 5A@600VDC (P600) AC 110 240 V 8.6 W 218 VA	number of NO contacts at contactor for auxiliary contacts	1
type of voltage of the control supply voltage control supply voltage at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC AC AC 110 240 V 8.6 W 218 VA	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage out of the control supply voltage out of the control supply voltage out of the control supply voltage 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage • at AC at 60 Hz rated value holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	Coil	
◆ at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	type of voltage of the control supply voltage	AC
holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	control supply voltage	
apparent pick-up power of magnet coil at AC 218 VA	at AC at 60 Hz rated value	110 240 V
	holding power at AC minimum	8.6 W
apparent holding power of magnet coil at AC	apparent pick-up power of magnet coil at AC	218 VA
apparent noruing power of magnet con at AC 25 VA	apparent holding power of magnet coil at AC	25 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	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
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	13 52 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
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1A
contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 1A@250VDC (R300)
UL	5. (g. 555.7.); 1. (g. 255.7.) (1. 655.7.)
insulation voltage (Ui)	600 V
with single-phase operation at AC rated value with multi-phase operation at AC rated value	600 V
with multi-phase operation at AC rated value Enclosure	300 V
	indoors usable on a general basis
design of the housing	indoors, usable on a general basis
design of the housing Mounting/wiring	
design of the housing Mounting/wiring mounting position	Vertical
design of the housing Mounting/wiring mounting position fastening method	Vertical Surface mounting and installation
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Vertical Surface mounting and installation Box lug
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply	Vertical Surface mounting and installation Box lug 45 45 lbf·in
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Vertical Surface mounting and installation Box lug 45 45 lbf·in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	Vertical Surface mounting and installation Box lug 45 45 lbf·in 1x (14 2 AWG) 75 °C AL or CU
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 45 45 lbf·in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf·in
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box Lug ADDITIONAL CORRESPINE CORRESP
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil	Vertical Surface mounting and installation Box lug 45 45 lbf·in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf·in
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals
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Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts	Vertical Surface mounting and installation Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)

contacts	
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables 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)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 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,...)

Industry Mall (Online ordering system)

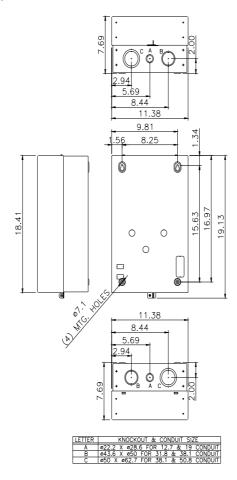
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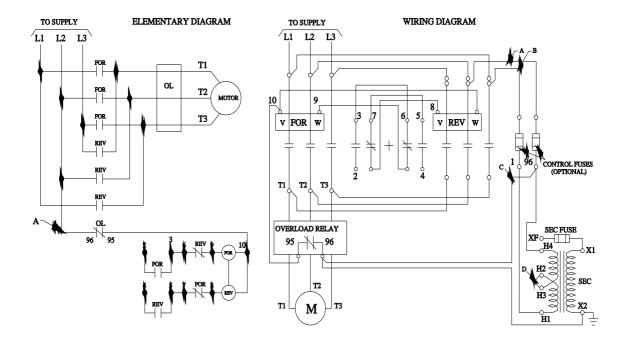
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