SIEMENS

Data sheet US2:22DUA32AA

Reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 0.25-1A 110-120/220-240VAC 60HZ coil Non-combination type Enclosure type (open)



Figure similar

Product brand name	Class 22
Design of the product	Reversing motor starter
Special product feature	ESP200 overload relay

General technical data	
Weight [lb]	6 lb
Height x Width x Depth [in]	7.69 × 10.5 × 3.92 in
Protection against electrical shock	Not finger-safe
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
Country of origin	Mexico

Yielded mechanical performance [hp] for three-phase AC motor	
• at 200/208 V rated value	0.17 hp
• at 220/230 V rated value	0.17 hp
• at 460/480 V rated value	0.33 hp
• at 575/600 V rated value	0.5 hp

Contactor	
Size of contactor	NEMA controller size 1
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	27 A
Mechanical service life (switching cycles) of the main contacts typical	10000000

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	8
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	8.6 W
Apparent pick-up power of magnet coil at AC	218 V·A
Apparent holding power of magnet coil at AC	25 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	50 %
the input voltage	
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms

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

External reset	No
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
Adjustable pick-up value current of the current-	0.25 1 A
dependent overload release	
Make time with automatic start after power failure	3 s
maximum	
Relative repeat accuracy	1 %
Product feature Protective coating on printed-circuit	Yes
board	
Number of NC contacts of auxiliary contacts of	1
overload relay	
Number of NO contacts of auxiliary contacts of	1
overload relay	
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	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	
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	Open device (no enclosure)

Enclosure	
Degree of protection NEMA rating of the enclosure	Open device (no enclosure)
Design of the housing	NA

Mounting/wiring	
Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage line- side	Screw-type terminals
Tightening torque [lbf·in] for supply	35 35 lbf·in
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (14 2 AWG)
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	Screw-type terminals
Tightening torque [lbf·in] for load-side outgoing feeder	20 24 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	2x (14 10 AWG)

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	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	
Decision of the five limb for short singuit queto stick of	40k4@000\/ (Class II av I/); 400k4@000\/ (Class D av I)

Short-circuit current rating	
Design of the fuse link for short-circuit protection of	10kA@600V (Class H or K); 100kA@600V (Class R or J)
the main circuit required	
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

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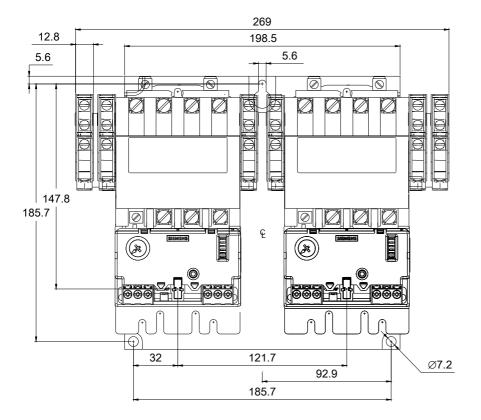
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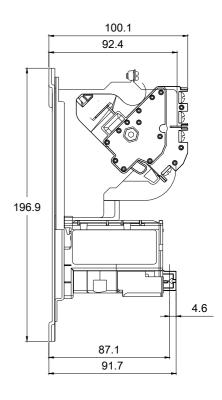
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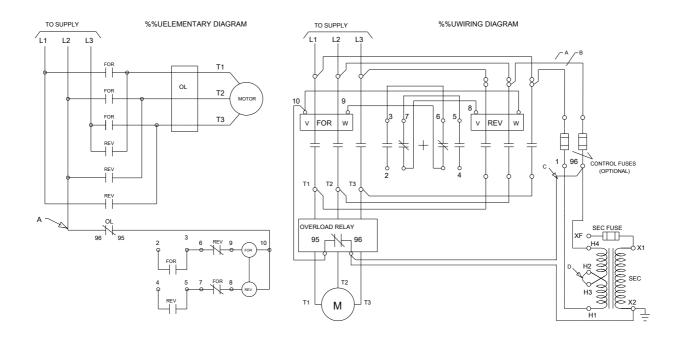
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Certificates/approvals

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