2-speed 3-phase motor starter Size 2 1/2 One winding consequent pole Constant or variable torque Solid-state overload relays Low SPD OLR range 25-100A High SPD OLR range 25-100A 110-120/220-240VAC 60HZ coil Enclosure NEMA type (open) No enclosure



Figure similar

Product brand name	Class 30
Design of the product	Two speed motor starter
Special product feature	ESP200 overload relay; Half-size controller; Dual voltage coil

General technical data	
Weight [lb]	10 lb
Height x Width x Depth [in]	9.19 × 16.3 × 4.23 in
Protection against electrical shock	Not finger-safe
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	Mexico

Horsepower ratings

Yielded mechanical performance [hp] for three-phase AC motor	
• at 200/208 V rated value	15 hp
• at 220/230 V rated value	20 hp
• at 460/480 V rated value	30 hp
• at 575/600 V rated value	30 hp

Contactor	
Size of contactor	Controller half size 2 1/2
Number of NO contacts for main contacts	6
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	60 A
Mechanical service life (switching cycles) of the main contacts typical	1000000

Auxiliary contact	
Number of NC contacts at contactor for auxiliary contacts	2
Number of NO contacts at contactor for auxiliary contacts	2
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	17.2 W
Apparent pick-up power of magnet coil at AC	436 V·A
Apparent holding power of magnet coil at AC	50 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 Phase failure detection Phase unbalance Ground fault detection Test function Yes Yes Yes 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 overload relay	
 for low rotational speed 	25 100 A
 for high rotational speed 	25 100 A
Trip 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
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

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

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	45 45 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	Box lug
Tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)

Temperature of the conductor for load-side outgoing	75 °C
feeder maximum permissible	
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	10kA@600V (Class H or K): 100kA@600V (Class R or I)

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

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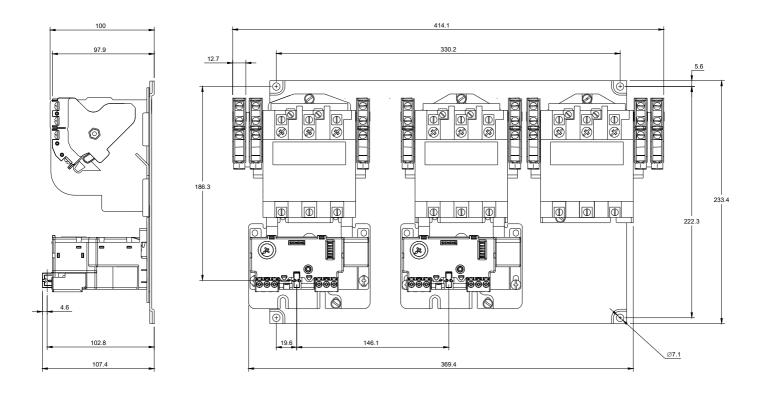
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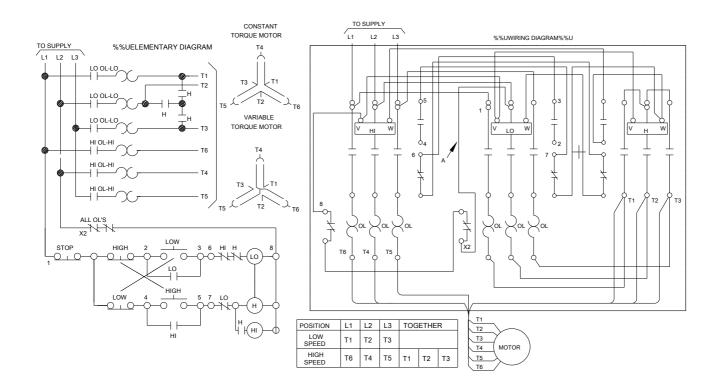
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