## **SIEMENS**

Data sheet US2:14FP12BD81

Non-reversing motor starter, Size 2, Single phase, 2-pole, Amb compensate bimetal OLrelay Contactor amp rating 45Amp 208VAC 60HZ coil, Non-combination type, Enclosure type 1, Indoor general purpose use



Figure similar

General technical data	
Weight [lb]	12.5 lb
Height x Width x Depth [in]	14 × 8 × 7 in
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
Ambient temperature [°F] during operation	-4 +104 °F
Ambient temperature during storage	-30 +65 °C
Ambient temperature during operation	-20 +40 °C
Country of origin	USA

## Yielded mechanical performance [hp] for singlephase AC motor • at 115 V rated value • at 200/208 V rated value • at 220/230 V rated value 7.5 hp

Contactor	
Number of NO contacts for main contacts	2
Operating voltage for main current circuit at AC at 60 Hz maximum	240 V
Operating current at AC at 600 V rated value	45 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	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 DC rated value	0 0 V
• at AC at 60 Hz rated value	208 208 V
• at AC at 50 Hz rated value	0 0 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 the input voltage	50 %
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms
Overload relay	
Product function	
Overload protection	Yes
Test function	Yes
External reset	Yes
Reset function	Manual and automatic
Adjustment range of thermal overload trip unit	0.85 1.15
Number of NC contacts of auxiliary contacts of overload relay	1
Number of NO contacts of auxiliary contacts of overload relay	0
Operating current of auxiliary contacts of overload relay	

● at AC at 600 V	5 A
• at DC at 250 V	5 A
Contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 5A@250VDC (P300)

Enclosure	
Degree of protection NEMA rating of the enclosure	NEMA Type 1
Design of the housing	Indoor general purpose use

3	3	
Mounting/wiring		
Mounting position	Vertical	
(mounting type)	Surface mounting and installation	
Type of electrical connection for supply voltage lineside	Box lug	
Tightening torque [lbf·in] for supply	45 45 lbf·in	
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	35 50 lbf·in	
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	5 12 lbf·in	
Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded	2x (16 12 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 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

Industrial Controls - Product Overview (Catalogs, Brochures,...)

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Industry Mall (Online ordering system)

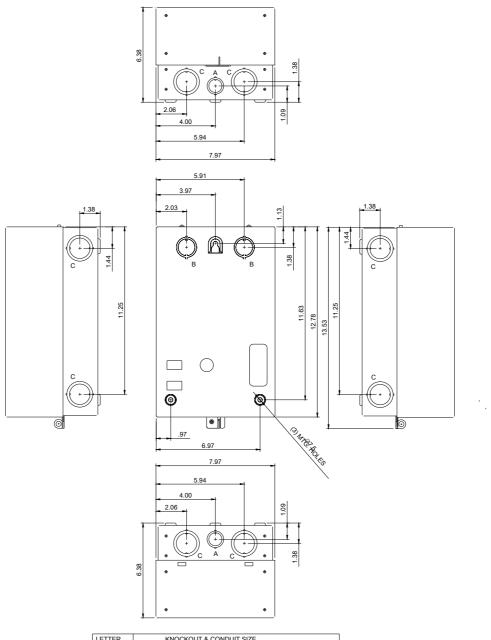
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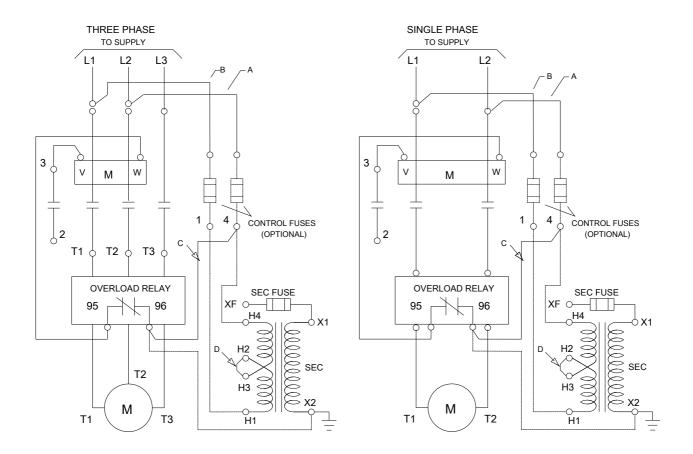
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Certificates/approvals

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LETTER	KNOCKOUT & CONDUIT SIZE
Α	%%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT
В	%%C28.6 X %%C34.9 FOR 19 & 25.4 CONDUIT
С	%%C34.9 X %%C43.6 FOR 25.4 & 31.8 CONDUIT



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