SIEMENS

Data sheet

US2:14HP32BD81

Non-reversing motor starter, Size 3, Three phase full voltage, Amb compensate bimetal OLrelay Contactor amp rating 90Amp 208VAC 60HZ coil, Non-combination type, Enclosure type 1, Indoor general purpose use



Figure similar

General technical data		
Weight [lb]	25 lb	
Height x Width x Depth [in]	20 × 12 × 8 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	
Horsepower ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
• at 200/208 V rated value	25 hp	
• at 220/230 V rated value	30 hp	
• at 460/480 V rated value	50 hp	

• at 575/600 V rated va

50 hp

• at 575/600 V rated value	50 np
Contactor	
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	90 A
Mechanical service life (switching cycles) of the main contacts typical	500000
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	14 W
Apparent pick-up power of magnet coil at AC	310 V·A
Apparent holding power of magnet coil at AC	26 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	26 41 ms
Off-delay time	14 19 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	3
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
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	120 120 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 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

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

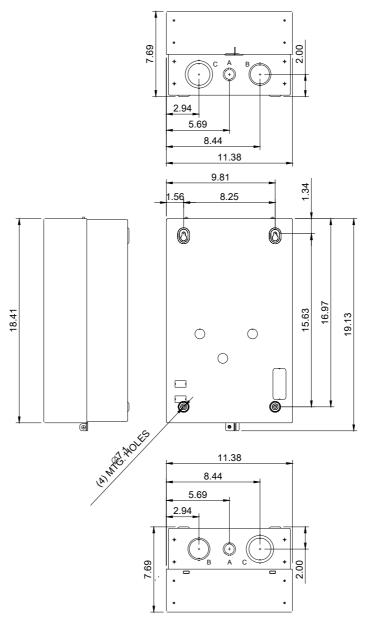
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14HP32BD81

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14HP32BD81

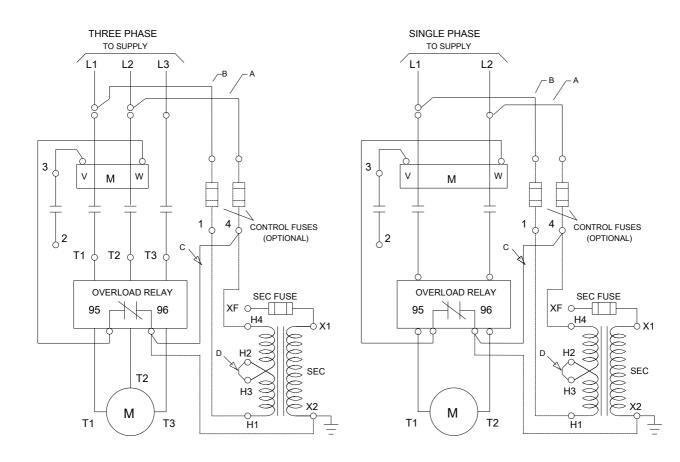
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HP32BD81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14HP32BD81/certificate



LETTER	KNOCKOUT & CONDUIT SIZE
A	%%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT
В	%%C43.6 X %%C50 FOR 31.8 & 38.1 CONDUIT
С	%%C50 X %%C62.7 FOR 38.1 & 50.8 CONDUIT



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