SIEMENS

Data sheet US2:14DP12BD81



Non-reversing motor starter, Size 1, Single Phase, 2-Pole, Amb. compensate bimetal OLR, Contactor amp rating 27A, 208VAC 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use

Figure similar

product brand name	Class 14 & 22
design of the product	Full-voltage non-reversing motor starter
General technical data	
weight [lb]	8 lb
Height x Width x Depth [in]	11 × 7 × 5 in
touch 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
 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 single-phase AC motor	
 at 115 V rated value 	2 hp
at 200/208 V rated value	3 hp
at 220/230 V rated value	3 hp
Contactor	
size of contactor	NEMA controller size 1
number of NO contacts for main contacts	2
operating voltage for main current circuit at AC at 60 Hz maximum	240 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating 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	208 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA

0.85 ... 1.1 operating range factor control supply voltage rated value of magnet coil 50 % percental drop-out voltage of magnet coil related to the input voltage 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 0 number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V 5 A • at DC at 250 V contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 5A@250VDC (P300) according to UL Enclosure degree of protection NEMA rating design of the housing indoors, usable on a general basis Mounting/wiring Vertical mounting position fastening method 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 75 °C temperature of the conductor for supply maximum permissible AL or CU material of the conductor for supply 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 2x (16 ... 12 AWG) coil at AWG cables single or multi-stranded 75 °C temperature of the conductor at magnet coil maximum permissible 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 1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG) at AWG cables for auxiliary contacts single or multistranded temperature of the conductor at contactor for auxiliary 75 °C contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary Screw-type terminals contacts tightening torque [lbf·in] at overload relay for auxiliary 5 ... 12 lbf·in contacts type of connectable conductor cross-sections at overload 2x (16 ... 12 AWG) relay at AWG cables for auxiliary contacts single or multistranded 75 °C temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary CU contacts Short-circuit current rating design of the fuse link for short-circuit protection of the 10kA@600V (Class H or K); 100kA@600V (Class R or J) main circuit required design of the short-circuit trip Thermal magnetic circuit breaker maximum short-circuit current breaking capacity (Icu)

at 240 V
 at 480 V
 at 600 V
 certificate of suitability
 14 kA
 10 kA
 NEMA ICS 2; UL 508; CSA 22.2, No.14

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=US2:14DP12BD81

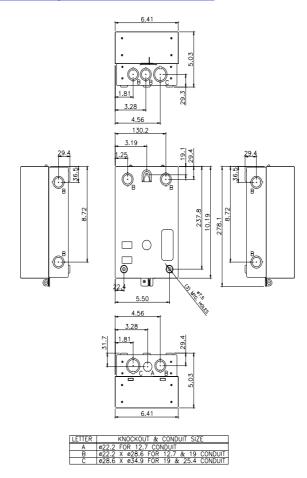
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

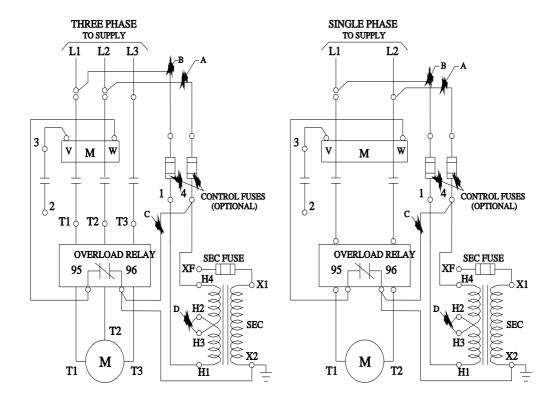
https://support.industry.siemens.com/cs/US/en/ps/US2:14DP12BD81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DP12BD81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DP12BD81/certificate





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