SIEMENS

Data sheet US2:14DP820A81



Non-reversing motor starter, Size 1, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 27A, Non-combination type, Enclosure type 12, Dust/drip proof for indoors

Figure similar

product brand name design of the product special product feature Class 14 & 22 Full-voltage non-reversing motor starter Dual voltage coil

special product leature	Dual Voltage coll
General technical data	
weight [lb]	15 lb
Height x Width x Depth [in]	13 × 13 × 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 3-phase AC motor	
at 200/208 V rated value	7.5 hp
 at 220/230 V rated value 	7.5 hp
at 460/480 V rated value	10 hp

at 220/230 V rated value	7.5 hp
at 460/480 V rated value	10 hp
at 575/600 V rated value	10 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
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 control supply voltage	AC
 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 VA apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value 0.85 ... 1.1 of magnet coil percental drop-out voltage of magnet coil related to the 50 % 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 Manual and automatic reset function adjustment range of thermal overload trip unit 0.85 ... 1.15 number of NC contacts of auxiliary contacts of overload number of NO contacts of auxiliary contacts of overload 0 relay operational current of auxiliary contacts of overload relay • at AC at 600 V 10 A • at DC at 250 V 5 A contact rating of auxiliary contacts of overload relay 10A@600VAC (A600), 5A@250VDC (P300) according to UL **Enclosure** degree of protection NEMA rating 12 design of the housing Extra-wide dustproof and drip-proof for indoor use design of the housing Mounting/wiring Vertical mounting position Surface mounting and installation fastening method type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 35 ... 35 lbf·in temperature of the conductor for supply maximum 75 °C 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 CU material of the conductor at magnet coil 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 75 °C temperature of the conductor at contactor for auxiliary contacts maximum permissible CH material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary Screw-type terminals contacts 5 ... 12 lbf·in tightening torque [lbf·in] at overload relay for auxiliary type of connectable conductor cross-sections at overload 2x (16 ... 12 AWG) relay at AWG cables for auxiliary contacts single or multistranded temperature of the conductor at overload relay for auxiliary 75 °C contacts maximum permissible material of the conductor at overload relay for auxiliary CU contacts Short-circuit current rating 10kA@600V (Class H or K); 100kA@600V (Class R or J) design of the fuse link for short-circuit protection of the

main circuit required

design of the short-circuit trip

maximum short-circuit current breaking capacity (Icu)

- at 240 V
- at 480 V
- at 600 V

certificate of suitability

Thermal magnetic circuit breaker

14 kA

10 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=US2:14DP820A81

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

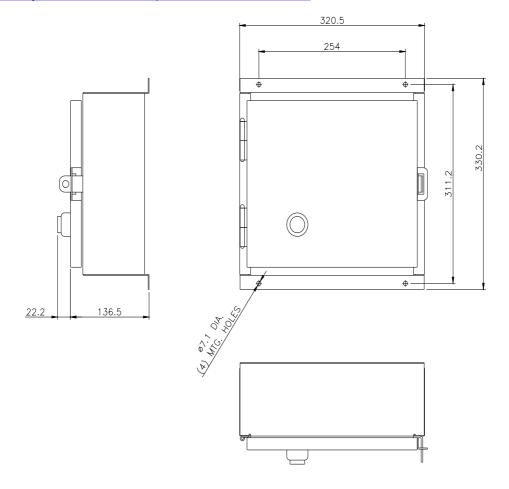
https://support.industry.siemens.com/cs/US/en/ps/US2:14DP820A81

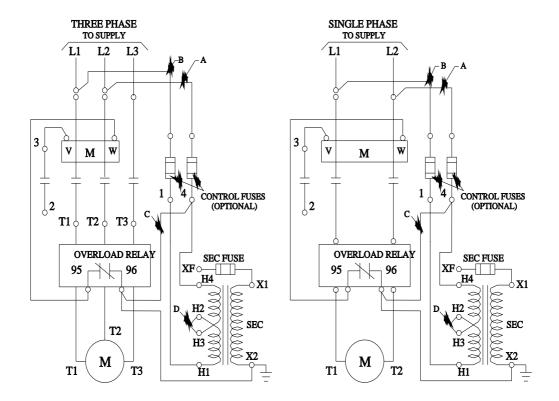
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DP820A81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DP820A81/certificate





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