SIEMENS

Data sheet

US2:14DUB820S

Non-reversing motor starter Size 1 Three phase full voltage Solidstate overload relay OLRelay amp range 0.75-3.4A 24Vdc coil Noncombination type Enclosure NEMA type 12 Dust/drip proof for indoors Extra-wide enclosure



Figure similar

General technical data	
Weight [lb]	15 lb
Height x Width x Depth [in]	13 × 13 × 5 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	0.5 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value	1.5 hp

• at 575/600 V rated value

2 hp

• at 575/600 V rated value	2 hp
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	27 A
Mechanical service life (switching cycles) of the main	1000000
contacts typical	
Auxiliary contact	
Number of NC contacts at contactor for auxiliary	0
contacts	
Number of NO contacts at contactor for auxiliary	1
contacts	
Number of total auxiliary contacts maximum	8
Contact rating of auxiliary contacts of contactor	10A@600VAC (A600), 5A@600VDC (P600)
according to UL	
Coil	
Type of voltage of the control supply voltage	DC
Control supply voltage	
• at DC rated value	24 24 V
 at AC at 60 Hz rated value 	0 0 V
• at AC at 50 Hz rated value	0 0 V
Holding power at AC minimum	0 W
Apparent pick-up power of magnet coil at AC	163 V·A
Apparent holding power of magnet coil at AC	5.5 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	25 %
Switch-on delay time	21 21 ms
Off-delay time	11 11 ms
Overload relay	
Product function	
Overload protection	Yes
Phase failure detection	Yes
Phase unbalance	Yes
 Ground fault detection 	Yes
Test function	Yes
External reset	Yes
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
L	

Adjustable pick-up value current of the current- dependent overload release	0.75 3.4 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	NEMA Type 12
Design of the housing	Dust tight and drip proof for indoors
Mounting/wiring	
Mounting position	Vertical
(mounting type)	Surface mounting and installation
Type of electrical connection for supply voltage line-	Screw-type terminals
side	
	35 35 lbf·in
side	
side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line-	35 35 lbf·in
side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum	35 35 lbf·in 1x(14 - 2 AWG)
side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible	35 35 lbf·in 1x(14 - 2 AWG) 75 °C
side Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing	35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU
side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing feeder Tightening torque [lbf-in] for load-side outgoing	35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU Screw-type terminals
side Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing feeder Tightening torque [lbf-in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single	35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in
side Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing feeder Tightening torque [lbf-in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded Temperature of the conductor for load-side outgoing	35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2 x (14 - 10 AWG)

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	2 x (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	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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	2 x (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 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

Further information

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

Industry Mall (Online ordering system)

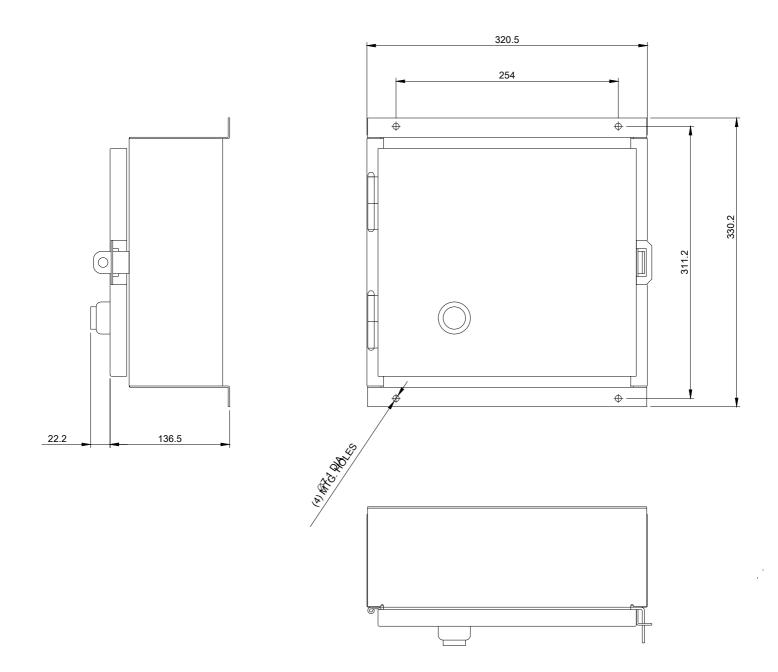
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB820S

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUB820S&lang=en

Certificates/approvals

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