SIEMENS

Data sheet US2:14DUD82WS



Non-reversing motor starter Size 1 Three phase full voltage Solidstate overload relay OLRelay amp range 5.5-22A 24Vdc coil Noncombination type Encl NEMA type 4X 304 S-steel Water/dust tight non-corrosive 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

Vielded mechanical performance [hp] for three-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value 10 hp

• at 575/600 V rated value	10 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 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	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

Adjustable pick-up value current of the current- dependent overload release	5.5 22 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 4X 304 stainless steel enclosure
Design of the housing	Dust-tight, watertight & corrosion resistant
Design of the housing	
Design of the housing Mounting/wiring	Dust-tight, watertight & corrosion resistant
Design of the housing Mounting/wiring Mounting position	Dust-tight, watertight & corrosion resistant Vertical
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage line-	Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside	Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Screw-type terminals
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at line-	Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)
Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at lineside 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	Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG) 75 °C AL or CU
Design of the housing Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Tightening torque [lbf-in] for supply Type of connectable conductor cross-sections at lineside 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG) 75 °C AL or CU Screw-type terminals

Material of the conductor for load-side outgoing

Type of electrical connection of magnet coil

screw-type terminals

AL or CU

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	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	

Further information

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14DUD82WS}}$

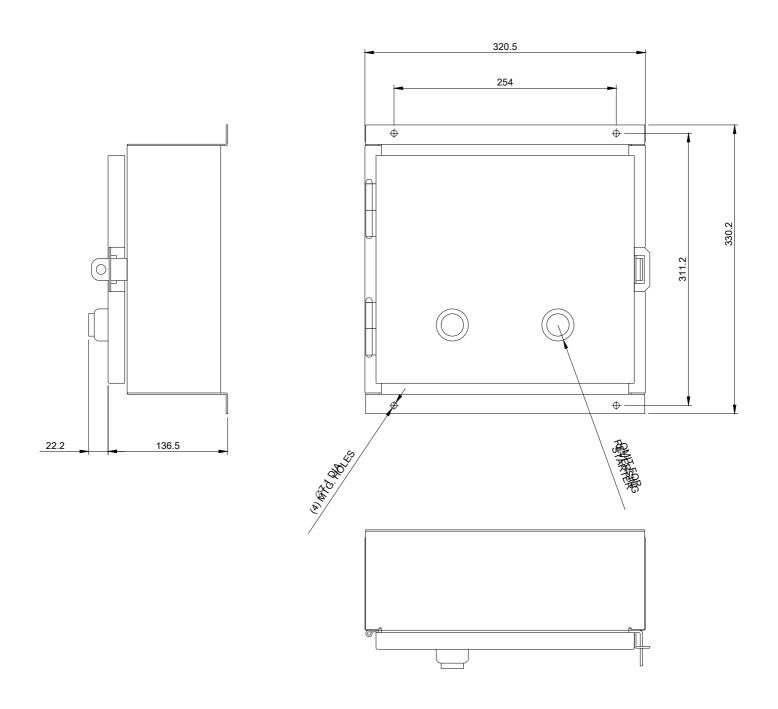
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD82WS

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUD82WS&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD82WS/certificate





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