SIEMENS

Data sheet US2:14DUB32HF



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 7/9/3/4, Hazardous locations, Standard width enclosure

Figure similar

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	35 lb
Height x Width x Depth [in]	15.25 × 10.69 × 10 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	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
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	AC
control supply voltage	
 at AC at 50 Hz rated value 	110 V

at AC at 50 Hz rated value
at AC at 60 Hz rated value

120 V

holding power at AC minimum 8.6 W 218 VA apparent pick-up power of magnet coil at AC 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 • phase failure detection Yes Yes · asymmetry detection • ground fault detection Yes test function Yes external reset Yes reset function Manual, automatic and remote CLASS 5 / 10 / 20 (factory set) / 30 trip class 0.75 ... 3.4 A adjustable current response value current of the currentdependent overload release tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % Yes product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload 1 number of NO contacts of auxiliary contacts of overload 1 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), 1A@250VDC (R300) according to UL insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V degree of protection NEMA rating 3, 4, 7, 9 design of the housing Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals 35 ... 35 lbf·in tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side 1x(14 - 2 AWG) at AWG cables single or multi-stranded 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 20 ... 24 lbf·in type of connectable conductor cross-sections at AWG 2 x (14 - 10 AWG) cables for load-side outgoing feeder single or multitemperature of the conductor for load-side outgoing feeder 75 °C maximum permissible CU material of the conductor for load-side outgoing feeder 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 2 x (16 - 12 AWG) coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum 75 °C 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 at AWG cables 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 cables 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
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

none

none

0 kA

0 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=US2:14DUB32HF

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

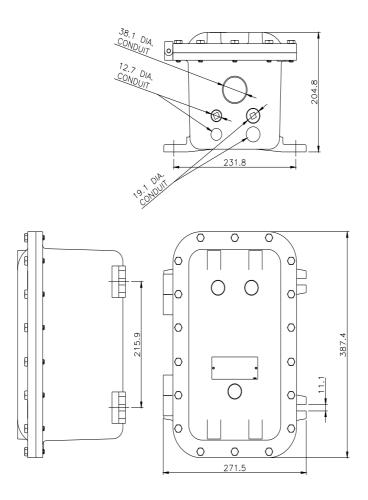
https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB32HF

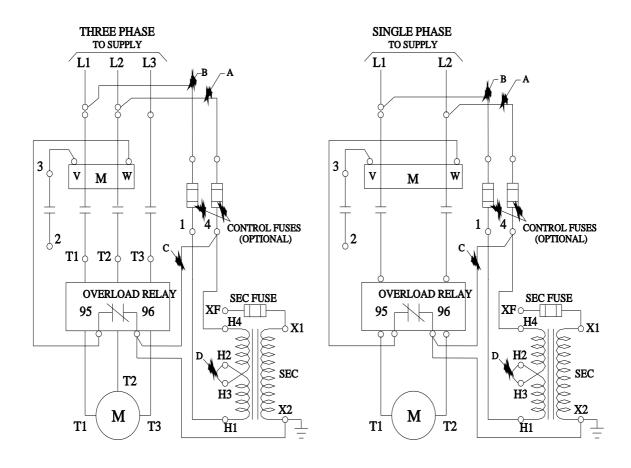
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUB32HF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB32HF/certificate





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