SIEMENS

Data sheet

US2:22DUB32AH



Reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 0.75-3.4A 380-440/440-480V 50/60HZ coil Non-combination type Enclosure type (open)

product brand name Class 22 design of the product feature Full-voltage reversing motor starter special product feature ESP200 overload relay General technical data ESP200 overload relay weight [b] 6 lb Height x Width x Depth [in] 7.69 × 10.5 × 3.92 in touch protection against electrical shock Not finger-safe installation altitude [F] 600 ft • during operation -4 +104 °F ambient temperature [F] -20+40 °C • during operation -20+40 °C oountry of origin Mexico Horsepower ratings -20+40 °C yielded mechanical performance [hp] for 3-phase AC motor -20+40 °C outring operation -25 hp • at 200/208 V rated value 0.5 hp • at 200/208 V rated value 2.5 hp • at 575/600 V rated value 2 hp roumber of NO contacts for main contacts 3 operating voltage formain current circuit at AC at 60 Hz maximum 0 operating voltage formain current circuit at AC at 60 Hz maximum 0 operating voltage formain c	Figure similar	
special product feature ESP200 overload relay General tochnical data 6 lb weight [lb] 6 lb Height X Width X Depth [in] 7.69 × 10.5 × 3.92 in touch protection against electrical shock Not finger-safe installation altitude [ft] at height above sea level maximum ambient temperature ['F] • during operation -4+104 °F ambient temperature -30+65 °C • during operation -20+40 °F auting storage -30+65 °C • during operation -20+40 °F auting storage -30+65 °C • during operation -20+40 °F auting operation -20+40 °C country of origin Mexico Horsopower ratings yielded mechanical performance [hp] for 3-phase AC motor at 260/208 V rated value 0.5 hp • at 250/208 V rated value 0.5 hp • at 250/208 V rated value 2 hp Contactor Size of contactor number of NC contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 2	product brand name	Class 22
General technical data 6 lb weight [Ib] 6 lb Height x Width x Depth [in] 7.69 × 10.5 × 3.92 in touch protection against electrical shock Not finger-safe installation altitude [I] at height above sea level maximum 6660 ft ambient temperature ['F] -22 +149 "F • during operation -24 +104 "F ambient temperature -30 +65 °C • during operation -20 +40 °C routry of origin Mexico Hosspower ratings -90 +65 °C yielded mechanical performance [hp] for 3-phase AC -0.5 hp origin All to all outle 0.5 hp • at 200/208 V rated value 0.5 hp • at 200/208 V rated value 1.5 hp • at 460/480 V rated value 1.5 hp • at 460/480 V rated value 2 hp Contactor NEMA controller size 1 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 00 V mechanical service life (switching cycles) of the main contacts (pical 10000000 Auxillary contact 1 number of NC contacts at contactor for auxillary con	design of the product	Full-voltage reversing motor starter
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Installation altitude [ft] at height above sea level maximum 6660 ft ambient temperature ['F] • during operation -22 +149 "F ambient temperature • during operation -4 +104 "F ambient temperature • during operation -20 +40 "C • during voltage -20 +40 "C • during voltage of origin Mexico Horsepower ratings -90 +65 "C vielded mechanical performance [hp] for 3-phase AC 0.5 hp • at 200/200 V rated value 0.5 hp • at 450/480 V rated value 0.5 hp • at 450/480 V rated value 2 hp Contactor NEMA controller size 1 number of NC contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 27 A maximum 0 1000000 <tr< td=""><td>Height x Width x Depth [in]</td><td>7.69 × 10.5 × 3.92 in</td></tr<>	Height x Width x Depth [in]	7.69 × 10.5 × 3.92 in
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• during operation -20 +40 °C country of origin Mexico Horsepower ratings	ambient temperature	
country of origin Mexico Horsepower ratings	during storage	-30 +65 °C
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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	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage AC		10A@600VAC (A600), 5A@600VDC (P600)
	Coil	
control supply voltage	type of voltage of the control supply voltage	AC
	control supply voltage	

• at AC at 50 Hz rated value	380 440 V
at AC at 60 Hz rated value	440 480 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 of magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	Yes
 ground fault detection 	Yes
test function	Yes
external reset	No
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	0.75 3.4 A
make time with automatic start after power failure 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	1
relay	
number of NO contacts of auxiliary contacts of overload relay	1
operational 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 (Ui)	
 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	Open device (no enclosure)
design of the housing	NA
Mounting/wiring	
mounting position	Vertical
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
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 material of the conductor for supply	AL or CU
material of the conductor for supply type of electrical connection for load-side outgoing feeder	Screw-type terminals
	20 24 lbf·in
tightening torque [Ibf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG	
cables for load-side outgoing feeder single or multi- stranded	2x (14 10 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	CU
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)

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coil at AWG cables single or multi-stranded		
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 cables for auxiliary contacts single or multi- stranded	1x (12 AWG), 2x (16 14 AWG), 2x (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	2x (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	
breaking capacity maximum short-circuit current (lcu)		
• at 240 V	14 kA	
● at 480 V	10 kA	
• at 600 V	10 kA	
certificate of suitability	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=US2:22DUB32AH Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:22DUB32AH Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)		
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:22DU	b=US2:22DUB32AH⟨=en	

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