SIEMENS

Data sheet US2:22DUB32AF



Reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 0.75-3.4A 110VAC 50HZ / 120VAC 60HZ coil Noncombination type Enclosure type (open)

product brand name	Class 22		
design of the product	Full-voltage reversing motor starter		
special product feature	ESP200 overload relay		
General technical data			
weight [lb]	6 lb(av)		
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	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	Mexico		
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	345VA@115VAC / 768VA@240VAC		
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 60 Hz rated value	120 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 relay	1		
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			
·	NA NA		
Enclosure	NA NA		
Enclosure design of the housing	NA Vertical		
Enclosure design of the housing Mounting/wiring	Vertical		
Enclosure design of the housing Mounting/wiring mounting position			
Enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Vertical Surface mounting and installation		
Enclosure design of the housing Mounting/wiring mounting position fastening method	Vertical Surface mounting and installation Screw-type terminals		
Enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in		
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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 for 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
maximum short-circuit current breaking capacity (Icu)	
• 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
Approvals Certificates	

Test Certificates



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

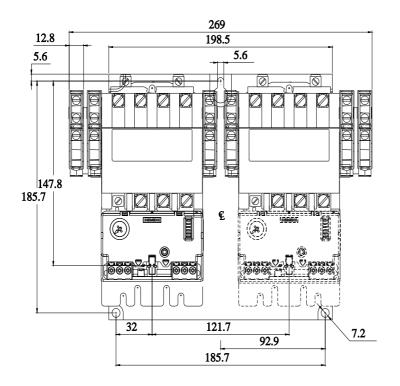
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22DUB32AF

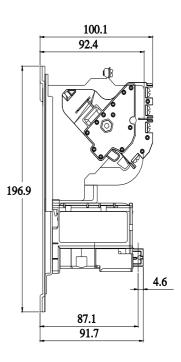
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22DUB32AF

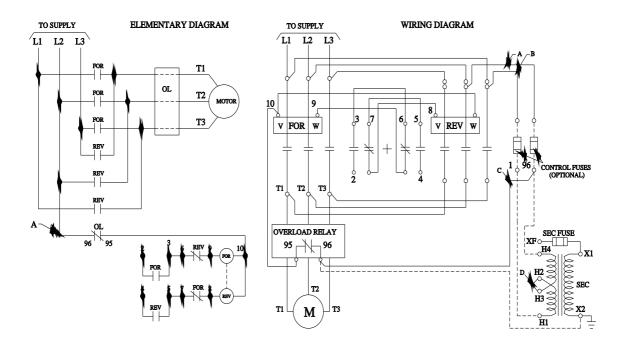
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22DUB32AF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22DUB32AF/certificate







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