SIEMENS

Data sheet

US2:22CUB320F



Reversing motor starter, Size 0, 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 12, Dust/drip proof for indoors, Standard width enclosure

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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]	17 lb		
Height x Width x Depth [in]	13 × 13 × 5 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 0		
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	18 A		
mechanical service life (switching cycles) of the main contacts typical	1000000		
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			

	(10)		
• 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	Yes		
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	12		
design of the housing	dustproof and drip-proof for indoor use		
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	20 20 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 permissible	75 °C		
	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 type of connectable conductor cross-sections at AWG	20 24 lbf·in 2x (1410 AW/G)		
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)		

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 (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				
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=US2:22CUB320F					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:22CUB320F					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUB320F⟨=en					
Certificates/approvals	Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:22CUB320F/certificate				

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last modified:

1/25/2022 🖸