SIEMENS

Data sheet US2:22GUG32FF



Reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, 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; Half-size starter				
General technical data					
weight [lb]	19 lb				
Height x Width x Depth [in]	24 × 15 × 7 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	15 hp				
• at 220/230 V rated value	20 hp				
• at 460/480 V rated value	30 hp				
• at 575/600 V rated value	30 hp				
Contactor					
size of contactor	Controller half size 2 1/2				
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	60 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	7				
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				
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					
test function	Yes				
	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	25 100 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					
degree of protection NEMA rating	4X, fiber glass				
design of the housing	dustproof, waterproof & resistant to corrosion				
Mounting/wiring					
mounting position	Vertical				
fastening method	Surface mounting and installation				
type of electrical connection for supply voltage line-side	Box lug				
tightening torque [lbf-in] for supply	45 45 lbf·in				
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 2 AWG)				
temperature of the conductor for supply maximum permissible	75 °C				
material of the conductor for supply	AL or CU				
type of electrical connection for load-side outgoing feeder	Box lug				
tightening torque [lbf-in] for load-side outgoing feeder	45 45 lbf-in				
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)				
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C				
material of the conductor for load-side outgoing feeder	AL or 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)				
type of connectable conductor cross-sections of madrier	ZX (10 12 /\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				

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=US2:22GUG32FF

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22GUG32FF

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22GUG32FF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22GUG32FF/certificate

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