SIEMENS

Data sheet US2:22HUG320F



Reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Standard width enclosure

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]	54 lb
Height x Width x Depth [in]	25 × 17 × 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	25 hp
 at 220/230 V rated value 	30 hp
 at 460/480 V rated value 	50 hp
at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (switching cycles) of the main contacts typical	5000000
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	

control supply voltage

type of voltage of the control supply voltage

AC

at AC at 50 Hz rated value at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time OFF-delay time OFF-delay time Overload relay product function • overload protection • phase failure detection • phase failure detection • symmetry detection • external reset reset function • external reset reset function itip class adjustable current response value current of the current-dependent overload release make time with automatic start after power failure maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V • with multi-phase operation at AC rated value
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Enclosure
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design of the housing dustproof and drip-proof for indoor use
Mounting/wiring
mounting position Vertical Surface mounting and installation
fastening method Surface mounting and installation Poxiting Poxiting
type of electrical connection for supply voltage line-side Box lug
tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor cross-sections at line-side 1x (14 2/0 AWG)
at AWG cables single or multi-stranded temperature of the conductor for supply maximum 75 °C
permissible All as Oll
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 120 120 lbf-in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded
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)

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	none
design of the short-circuit trip	none
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	0 kA
• at 480 V	0 kA
● at 600 V	0 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=US2:22HUG320F

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG320F

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22HUG320F&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG320F/certificate

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