SIEMENS

Data sheet US2:14GUG32BH

Non-reversing motor starter Size 2 1/2 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 380-440/440-480V 50/60HZ coil Combination type Indoor general purpose use





Figure similar

Product brand name	Class 14
Design of the product	Full-voltage non-reversing motor starter
Special product feature	ESP200 overload relay; Half-size starter

General technical data	
Weight [lb]	13 lb
Height x Width x Depth [in]	14 × 8 × 7 in
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

Yielded mechanical performance [hp] for three-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
Operating 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	0
contacts	
Number of NO contacts at contactor for auxiliary	1
contacts	
Number of total auxiliary contacts maximum	7
Contact rating of auxiliary contacts of contactor	10A@600VAC (A600), 5A@600VDC (P600)
according to UL	

Coil	
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 V·A
Apparent holding power of magnet coil at AC	25 V·A
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 %
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms

Overload relay Product function Overload protection Phase failure detection Phase unbalance Ground fault detection Yes Yes Yes

Test function	Yes
External reset	Yes
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
Adjustable pick-up value current of the current- dependent overload release	25 100 A
Trip time at phase-loss 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
Operating 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	
 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	1
Design of the housing	Indoor general purpose use

••	
Mounting/wiring	
Mounting position	Vertical
Mounting type	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 conductors 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 conductors 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 coil at AWG conductors single or multi-stranded	2 x (16 - 12 AWG)	
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 conductors for auxiliary contacts single or multi-stranded	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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 conductors for auxiliary contacts single or multi-stranded	2 x (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	

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

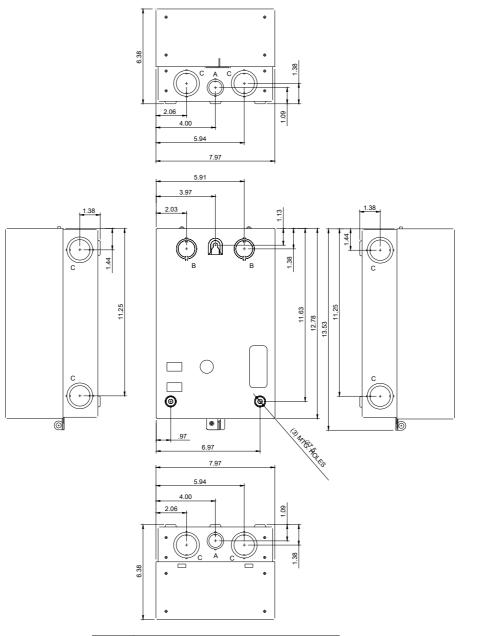
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14GUG32BH

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32BH

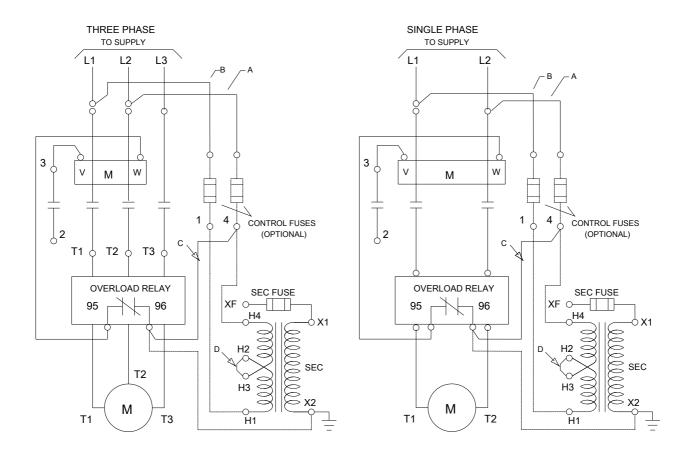
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GUG32BH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32BH/certificate



	LETTER	KNOCKOUT & CONDUIT SIZE
ı	Α	%%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT
	В	%%C28.6 X %%C34.9 FOR 19 & 25.4 CONDUIT
	С	%%C34.9 X %%C43.6 FOR 25.4 & 31.8 CONDUIT



D46590001

last modified: 03/10/2020