SIEMENS

Data sheet US2:18GUG92BH



Figure similar

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 100A circuit breaker Enclosure NEMA type 1 Indoor general purpose use Standard width enclosure

General technical data	
Height x Width x Depth [in]	24 × 20 × 8 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
Ambient temperature [°F] during operation	-4 +104 °F
Ambient temperature during storage	-30 +65 °C
Ambient temperature during operation	-20 +40 °C

orsepower ratings	
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

Number of NO contacts for main contacts	3	
	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 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 DC rated value	0 0 V	
• at AC at 60 Hz rated value	440 480 V	
• at AC at 50 Hz rated value	380 440 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 	Yes	
Phase failure detection	Yes	
Phase unbalance	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 pick-up value current of the current-	25 100 A	
dependent overload release		
Make time with automatic start after power failure maximum	3 s	

Relative repeat accuracy	1 %
Product feature Protective coating on printed-circuit	Yes
board	
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 of the enclosure	NEMA Type 1
Design of the housing	Indoor general purpose use
Motor Circuit Protector (magnetic trip only)	100 A
Operating current of motor circuit breaker rated value	100 A
Adjustable piek up value current of instantaneous	34E 4000 A
Adjustable pick-up value current of instantaneous short-circuit trip unit	315 1000 A
	315 1000 A
short-circuit trip unit	315 1000 A Vertical
short-circuit trip unit Mounting/wiring	
short-circuit trip unit Mounting/wiring Mounting position	Vertical
short-circuit trip unit Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage line-	Vertical Surface mounting and installation
short-circuit trip unit Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at line-	Vertical Surface mounting and installation Box lug
short-circuit trip unit Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum	Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG)
short-circuit trip unit Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible	Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C
Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing	Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU
short-circuit trip unit Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing feeder Tightening torque [lbf·in] for load-side outgoing	Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU Box lug
Mounting/wiring Mounting position (mounting type) Type of electrical connection for supply voltage lineside Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible Material of the conductor for supply Type of electrical connection for load-side outgoing feeder Tightening torque [lbf-in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single	Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU Box lug 45 45 lbf·in

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	2x (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	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 conductors 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

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Design of the short-circuit trip	Instantaneous trip circuit breaker
Maximum short-circuit current breaking capacity (Icu)	
● at 240 V	100 kA
● at 480 V	100 kA
● at 600 V	25 kA

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=US2:18GUG92BH

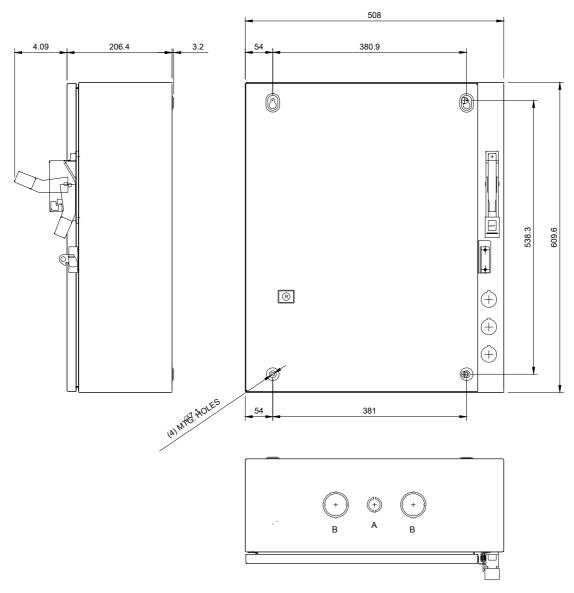
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG92BH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18GUG92BH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG92BH/certificate



\LCONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
Α	%%C12.7 & %%C19 CONDUIT
В	Ø31.8 & Ø38.1 CONDUIT



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