SIEMENS

Data sheet US2:88GUGT2MF

Reduced voltage pump panel, Auto transformer, Size 2 1/2, 230V 3-phase motor voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, 100A circuit breaker, HOA Sel Sw. & Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

General technical data	
Weight [lb]	186 lb
Height x Width x Depth [in]	43 × 24 × 11 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
Country of origin	USA

Horsepower ratings

Yielded mechanical performance [hp] for three-phase AC motor

at 200/208 V rated value
 at 220/230 V rated value
 at 460/480 V rated value
 at 575/600 V rated value
 0 hp

Contactor	
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	230 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)

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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	120 120 V
• at AC at 50 Hz rated value	110 110 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 (factory set) / 20 / 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

with mail-phase operation at Ao rated value		
Enclosure		
Degree of protection NEMA rating of the enclosure	NEMA 3/3R	
Design of the housing	Weather proof for outdoor use	
Motor Circuit Protector (magnetic trip only)		
Operating current of motor circuit breaker rated value	100 A	
Adjustable pick-up value current of instantaneous	315 1000 A	
short-circuit trip unit		
Mounting/wiring		
Mounting position	Vertical	
Mounting type	Surface mounting and installation	
Type of electrical connection for supply voltage line-	Box lug	
side		
Type of connectable conductor cross-sections at line-	1x (10 AWG 1/0 AWG)	
side at AWG conductors single or multi-stranded		
Temperature of the conductor for supply maximum	75 °C	
permissible		
Material of the conductor for supply	AL or CU	
Type of electrical connection for load-side outgoing	Box lug	
feeder	AC ACILICIA	
Tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in	
Type of connectable conductor cross-sections at	1x (14 2 AWG)	
AWG conductors for load-side outgoing feeder single	1A (14 2 AWO)	
or multi-stranded		
Temperature of the conductor for load-side outgoing	75 °C	
feeder maximum permissible		
Material of the conductor for load-side outgoing	AL or CU	
feeder		
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	2x (16 12 AWG)	
magnet coil at AWG conductors single or multi-		
stranded	75.00	
Temperature of the conductor at magnet coil maximum permissible	75 °C	
Material of the conductor at magnet coil	CU	
Type of electrical connection at contactor for auxiliary	Screw-type terminals	
contacts	Colow-type terminals	
Tightening torque [lbf-in] at contactor for auxiliary	10 15 lbf·in	
contacts		
Type of connectable conductor cross-sections at	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
contactor at AWG conductors for auxiliary contacts		
single or multi stranded		

single or multi-stranded

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

Short-circuit current rating Design of the short-circuit trip Maximum short-circuit current breaking capacity (Icu) ■ at 240 V Instantaneous trip circuit breaker 100 kA

100 kA

• at 600 V 25 kA

Further information

• at 480 V

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=US2:88GUGT2MF

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

https://support.industry.siemens.com/cs/US/en/ps/US2:88GUGT2MF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88GUGT2MF&lang=en

Certificates/approvals

 $\underline{\text{https://support.industry.siemens.com/cs/US/en/ps/US2:88GUGT2MF/certificate}}$

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