SIEMENS

Data sheet US2:88HUGT2MF

Reduced voltage pump panel, Auto transformer, Size 3, 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]	239 lb
Height x Width x Depth [in]	55 × 28 × 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	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	
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	14 W
Apparent pick-up power of magnet coil at AC	310 V·A
Apparent holding power of magnet coil at AC	26 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	50 %
the input voltage	
Switch-on delay time	26 41 ms
Off-delay time	14 19 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 multi-phase operation at AC rated value	300 V	
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)	Motor Circuit Protector (magnetic trip only)	
Operating current of motor circuit breaker rated value	100 A	
Adjustable pick-up value current of instantaneous short-circuit trip unit	315 1000 A	
Mounting/wiring		
Mounting position	Vertical	
Mounting type	Surface mounting and installation	
Type of electrical connection for supply voltage line- side	Box lug	
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (10 AWG 1/0 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	120 120 lbf·in	
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (14 2/0 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	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 at contactor for auxiliary contacts	Screw-type terminals	

single or multi-stranded

contacts

Tightening torque [lbf·in] at contactor for auxiliary

Type of connectable conductor cross-sections at

contactor at AWG conductors for auxiliary contacts

1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG)

10 ... 15 lbf·in

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	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=US2:88HUGT2MF

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

https://support.industry.siemens.com/cs/US/en/ps/US2:88HUGT2MF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88HUGT2MF&lang=en

Certificates/approvals

 $\underline{\text{https://support.industry.siemens.com/cs/US/en/ps/US2:88HUGT2MF/certificate}}$

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