SIEMENS

Data sheet

US2:88GUGP4MH

	Reduced voltage pump panel, Two step part winding, Size 2 1/2, 460V 3-phase motor voltage, Solid-state overload relay, OLR amp range 25-100A, 380-440/440- 480V 50/60Hz coil, 100A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use
product brand name	Class 88
design of the product	Reduced voltage pump panel with MCP - Two step part winding
special product feature	Half-size controller; ESP200 overload relay
General technical data	
weight [lb]	118 lb
Height x Width x Depth [in]	43 × 24 × 11 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	ו דטויד
during storage	-30 +65 °C
	-20 +40 °C
during operation	
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0 hp
 at 220/230 V rated value 	0 hp
• at 460/480 V rated value	60 hp
• at 575/600 V rated value	0 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	460 V
operational current at AC at 600 V rated value	60 A
mechanical service life (operating cycles) of the main contacts typical	1000000
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 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 VA
apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of	0.85 1.1
magnet coil	
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	

product function	
product function	Yes
 overload protection phase failure detection 	Yes
	Yes
asymmetry detection	Yes
ground fault detection	Yes
test function external reset	Yes
reset function	
trip class	Manual, automatic and remote
	CLASS 5 / 10 (factory set) / 20 / 30 25 100 A
adjustable current response value current of the current- dependent overload release	25 100 A
tripping 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
operational 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	5A@600VAC (B600), 1A@250VDC (R300)
UL	
insulation voltage (Ui)	600 V
 with single-phase operation at AC rated value with multi-phase operation at AC rated value 	300 V
with multi-phase operation at AC rated value Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 3/3R
design of the housing	Weather proof for outdoor use
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	100 A
adjustable current response value current of instantaneous	315 1000 A
short-circuit trip unit	
short-circuit trip unit Mounting/wiring	
	Vertical
Mounting/wiring	Vertical Surface mounting and installation
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Surface mounting and installation Box lug
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Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG)
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type of connectable conductor cross-sections at overload relay for 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 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	
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=US2:88GUGP4MH		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:88GUGP4MH		

https://support.industry.siemens.com/cs/US/en/ps/US2:88GUGP4MH Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88GUGP4MH&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:88GUGP4MH/certificate

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