SIEMENS

Data sheet

US2:87HUG60H



Pump control panel, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 380-440/440-480V 50/60Hz coil, Standard type contactor, 200A fusible disconnect, 200A/600V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

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product brand name	Class 87
design of the product	Pump control panel with fused disconnect switch
special product feature	ESP200 overload relay
General technical data	
weight [lb]	81 lb
Height x Width x Depth [in]	41 × 24 × 8 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	
 during storage 	-30 +65 °C
 during operation 	-20 +40 °C
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	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	90 A
mechanical service life (switching cycles) of the main contacts typical	500000
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	14 W
apparent pick-up power of magnet coil at AC	310 VA
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 %
ON-delay time	26 41 ms
OFF-delay time	14 19 ms
Overload relay	
product function	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	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 current response value current of the current-	25 100 A
dependent overload release	
tripping time at phase-loss maximum	3 \$
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 UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Disconnect Switch	
response value of switch disconnector	200A / 600V
design of fuse holder	Class H fuse clips
operating class of the fuse link	Class H, J (retrofittable), K and R
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA Type 3R
design of the housing	Weather proof for outdoor use
Standard Control Devices	
	Yes
product component Hand-Off-Auto selector switch	
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
product component start push button	Yes 20mm motal housing with matter finish
type of start push button	30mm metal housing with matte finish
Mounting/wiring	
mounting position	Vertical
fastening method	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 cables single or multi-stranded	1x (6 AWG 300 Kcmil)
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

tightening torque [lbf·in] at magnet coil5 12 lbtype of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded2x (16temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsCUtightening torque [lbf·in] at contactor for auxiliary contacts10 15 ltype of connectable conductor at contactor for auxiliary contacts1x (12 AVtightening torque [lbf·in] at contactor for auxiliary contacts1x (12 AVtype of connectable conductor at contactor for auxiliary contacts75 °Ctemperature of the conductor at contactor for auxiliary contacts maximum permissible75 °C	12 AWG) be terminals bf in VG), 2x (16 14 AWG), 2x (18 16 AWG) be terminals		
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relay at AWG cables for auxiliary contacts single or multi-			
	14 AWG)		
temperature of the conductor at overload relay for auxiliary 75 °C contacts maximum permissible			
material of the conductor at overload relay for auxiliary CU contacts			
Short-circuit current rating			
design of the fuse link for short-circuit protection of the 10kA@60 main circuit required	00V (Class H or K); 100kA@600V (Class R or J)		
certificate of suitability NEMA IC	S 2; UL 508		
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=US2:87HUG60H Service&Support (Manuals, Certificates, Characteristics, FAQs,)			
https://support.industry.siemens.com/cs/US/en/ps/US2:87HUG60H Image database (product images, 2D dimension drawings, 3D mode	Is, device circuit diagrams, EPLAN macros,)		
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87HUG60H⟨=en Certificates/approvals			

last modified:

1/25/2022 🖸