SIEMENS

Data sheet

US2:87HUG60C



Pump control panel, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 220-240/440-480VAC 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; Dual voltage coil			
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 	0 0 V			
 at AC at 60 Hz rated value 	220 480 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 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 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				
	NEMA Type 3P			
degree of protection NEMA rating of the enclosure	NEMA Type 3R			
design of the housing	Weather proof for outdoor use			
Standard Control Devices				
product component Hand-Off-Auto selector switch	Yes			
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish			
product component start push button	Yes			
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			

type of connectable conductor cross-sections at AWG cables 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 cables 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				
tightening torque [lbf-in] at contactor for auxiliary contacts	10 15 lbf·in				
type of connectable conductor cross-sections at contactor at AWG cables 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 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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)				
certificate of suitability	NEMA ICS 2; UL 508				
Further information	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=US2:87HUG60C					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:87HUG60C					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87HUG60C⟨=en					
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87HUG60C/certificate					

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