SIEMENS

Data sheet

US2:87GUG6FJ



Pump control panel, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 24VAC 50-60Hz coil, Standard type contactor, 60A fusible disconnect, 60A/600V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

product brand name	Class 87
design of the product	Pump control panel with fused disconnect switch
special product feature	Half-size controller; ESP200 overload relay
General technical data	
weight [lb]	48 lb
Height x Width x Depth [in]	29 × 20 × 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	30 hp
 at 575/600 V rated value 	30 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	600 V
operational current at AC at 600 V rated value	60 A
mechanical service life (switching 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 	24 24 V
at AC at 60 Hz rated value	24 24 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 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	19 29 ms
OFF-delay time	10 24 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	3s
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	60A / 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	
product component Hand-Off-Auto selector switch	Yes
product component Hand-Off-Auto selector switch	Yes 30mm metal housing with matte finish
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button	30mm metal housing with matte finish Yes
type of Hand-Off-Auto selector switch product component start push button type of start push button	30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring	30mm metal housing with matte finish Yes 30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in
type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG)
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45 45 lbf·in	
1x (14 2 AWG)	
75 °C	
AL or CU	
Screw-type terminals	
5 12 lbf·in	
2x (16 12 AWG)	
75 °C	
CU	
Screw-type terminals	
10 15 lbf·in	
1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
75 °C	
CU	
Screw-type terminals	
7 10 lbf·in	
2x (20 14 AWG)	
75 °C	
CU	
10kA@600V (Class H or K); 100kA@600V (Class R or J)	
NEMA ICS 2; UL 508	
ures,)	
t?mlfb=US2:87GUG6FJ	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:87GUG6FJ	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87GUG6FJ⟨=en	
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87GUG6FJ/certificate	
IG6E l/certificate	

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