SIEMENS

Data sheet

US2:87IUH6MF



Pump control panel, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 110V 50Hz / 120V 60Hz coil, Standard type contactor, 125A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

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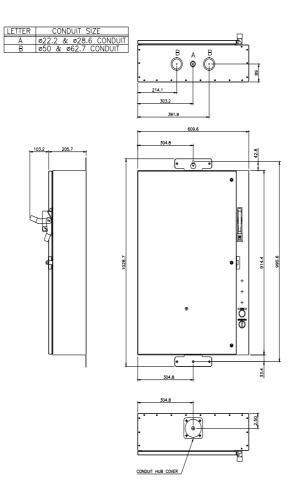
product brand name	Class 87		
design of the product	Pump control panel with MCP		
special product feature	Half-size controller; ESP200 overload relay		
General technical data			
weight [lb]	81 lb		
Height x Width x Depth [in]	41 × 24 × 8 in		
touch protection against electrical shock	NA for enclosed 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 	30 hp		
• at 220/230 V rated value	40 hp		
• at 460/480 V rated value	75 hp		
• at 575/600 V rated value	75 hp		
Contactor			
size of contactor	Controller half size 3 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	115 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			

	0.01/
at DC rated value	00V
at AC at 50 Hz rated value	110 110 V
• at AC at 60 Hz rated value	120 120 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA
apparent holding power of magnet coil at AC	26 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- dependent overload release	50 200 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 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
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
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
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	125 A
adjustable current response value current of instantaneous short-circuit trip unit	500 1250 A
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	1x (10 AWG 1/0 AWG)
at AWG cables single or multi-stranded temperature of the conductor for supply maximum	75 °C
permissible	
_ material of the conductor for supply	AL or CU
type of electrical connection for load side outgoing tooder	Box lug

120 120 lbf.ip				
120 120 lbf·in				
1x (14 2/0 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				
Instantaneous trip circuit breaker				
100 kA				
100 kA				
25 kA				
NEMA ICS 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=US2:87IUH6MF				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MF</u>				

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87IUH6MF&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MF/certificate



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