## SIEMENS

## Data sheet

## US2:87IUH6FF



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, 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	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			
<ul> <li>at 200/208 V rated value</li> </ul>	0 hp		
<ul> <li>at 220/230 V rated value</li> </ul>	0 hp		
• at 460/480 V rated value	75 hp		
<ul> <li>at 575/600 V rated value</li> </ul>	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			

<ul> <li>at DC rated value</li> </ul>	0 0 V
<ul> <li>at AC at 50 Hz rated value</li> </ul>	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
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	
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	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-	50 200 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)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	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	
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

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					
10kA@600V (Class H or K); 100kA@600V (Class R or J)					
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=US2:87IUH6FF Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6FF Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87IUH6FF⟨=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6FF/certificate					

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