## SIEMENS

## Data sheet

## US2:87LPU6MF



Pump control panel, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 110-127V 50-60Hz/DC coil, Standard type contactor, 400A 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	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil		
General technical data			
weight [lb]	205 lb		
Height x Width x Depth [in]	72 × 20 × 11 in		
touch protection against electrical shock	NA for enclosed products		
installation altitude [ft] at height above sea level maximum	6560 ft		
ambient temperature [°F]			
<ul> <li>during storage</li> </ul>	-22 +149 °F		
during operation	-4 +104 °F		
ambient temperature			
<ul> <li>during storage</li> </ul>	-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	75 hp		
<ul> <li>at 220/230 V rated value</li> </ul>	100 hp		
<ul> <li>at 460/480 V rated value</li> </ul>	200 hp		
<ul> <li>at 575/600 V rated value</li> </ul>	200 hp		
Contactor			
size of contactor	NEMA controller size 5		
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	270 A		
mechanical service life (switching cycles) of the main contacts typical	1000000		
Auxiliary contact			
number of NC contacts at contactor for auxiliary contacts	2		
number of NO contacts at contactor for auxiliary contacts	2		
number of total auxiliary contacts maximum	8		
contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)		
Coil			
type of voltage of the control supply voltage	AC/DC		

control supply voltage			
at DC rated value	110 127 V		
<ul> <li>at AC at 50 Hz rated value</li> </ul>	110 127 V		
at AC at 60 Hz rated value	110 127 V		
holding power at AC minimum	7.4 W		
apparent pick-up power of magnet coil at AC	590 VA		
apparent holding power of magnet coil at AC	6.7 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	60 %		
ON-delay time	30 95 ms		
OFF-delay time	40 80 ms		
Overload relay			
product function			
<ul> <li>overload protection</li> </ul>	Yes		
<ul> <li>phase failure detection</li> </ul>	Yes		
asymmetry detection	Yes		
ground fault detection	No		
test function	Yes		
external reset	Yes		
reset function	Manual and automatic		
trip class	CLASS 10		
	55 250 A		
adjustable current response value current of the current- dependent overload release			
product feature protective coating on printed-circuit board	No		
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		
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		
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	400 A		
adjustable current response value current of instantaneous short-circuit trip unit	2000 4000 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 at AWG cables single or multi-stranded	2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)		
temperature of the conductor for supply maximum permissible	75 °C		
	AL or CU		
material of the conductor for supply type of electrical connection for load-side outgoing feeder	AL or CU Box lug		

type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	2x 2/0 AWG 500 MCM				
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C				
material of the conductor for load-side outgoing feeder	CU				
type of electrical connection of magnet coil	Screw-type terminals				
tightening torque [lbf·in] at magnet coil	7 10 lbf·in				
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (18 14 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	7 10 lbf·in				
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi- stranded	2x (20 16 AWG), 2x (18 14 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 short-circuit trip	Instantaneous trip circuit breaker				
breaking capacity maximum short-circuit current (Icu)					
• at 240 V	100 kA				
• at 480 V	100 kA				
• at 600 V	25 kA				
certificate of suitability	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=US2:87LPU6MF					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:87LPU6MF					
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87LPU6MF⟨=en				
Certificates/approvals					

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87LPU6MF/certificate

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