SIEMENS

Data sheet

US2:87LPT6MG



Pump control panel, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 220-240V 50-60Hz/DC coil, Standard type contactor, 250A 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]					
 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	50 hp				
• at 220/230 V rated value	75 hp				
 at 460/480 V rated value 	150 hp				
 at 575/600 V rated value 	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 220 240 V • at AC at 50 Hz rated value 220 240 V • at AC at 60 Hz rated value 220 240 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 0.85 1.1 of magnet coil 0.85 1.1 operating range factor control supply voltage rated value 0.85 1.1 ON-delay time 30 95 ms OFF-delay time 40 80 ms Overload relay Yes product function Yes • overload protection Yes • asymmetry detection Yes • external reset Yes • external reset Yes reset function Manual and automatic trip class CLASS 10 adjustable current response value current of the current-dependent overload release For Additional and notematic product feature protective coating on printed-circuit board No number of NC contacts of auxiliary contacts of overload 1	
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number of NC contacts of auxiliary contacts of overload 1	
number of NO contacts of auxiliary contacts of overload 1 relay	
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	
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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 250 A	
adjustable current response value current of 1100 2500 A	
Mounting/wiring	
mounting position Vertical	
fastening method Surface mounting and installation	
type of connectable conductor cross-sections at line-side 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)	
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 feeder 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=US2:87LPT6MG Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/US/en/ps/US2:87LPT6MG					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87LPT6MG⟨=en					
Certificates/approvals					

https://support.industry.siemens.com/cs/US/en/ps/US2:87LPT6MG/certificate

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