SIEMENS

Data sheet

US2:87LPT6MH



Pump control panel, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 440-480V 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

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 (operating 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	440 480 V
• at AC at 50 Hz rated value	440 480 V
• at AC at 60 Hz rated value	440 480 V

holding power at AC minimum 7.4 V apparent pick-up power of magnet coil at AC 590 V apparent pick-up power of magnet coil at AC 590 V	M
annarent holding hower of magnet coil at A()	
apparent holding power of magnet coil at AC 6.7 V operating range factor control supply voltage rated value of 0.85	A 1.1
magnet coil	
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	
overload protection Yes	
phase failure detection Yes	
asymmetry detection Yes	
ground fault detection No	
• test function Yes	
• external reset Yes	
reset function Man	ual and automatic
trip class CLA	SS 10
adjustable current response value current of the current- dependent overload release 55	250 A
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	
	600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
• with single-phase operation at AC rated value 600 \	\checkmark
• with multi-phase operation at AC rated value 300 ¹	
Enclosure	
	A Type 3R
	ther proof for outdoor use
Standard Control Devices	
product component Hand-Off-Auto selector switch Yes	
	n metal housing with matte finish
product component start push button Yes	
	n metal housing with matte finish
Circuit Breaker	
type of the motor protection Moto	r circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value 250	
· ·	2500 A
short-circuit trip unit	
Mounting/wiring	
mounting position Verti	cal
fastening method Surfa	ace mounting and installation
type of electrical connection for supply voltage line-side Box	ug
type of connectable conductor cross-sections at line-side for 1x (6 AWG cables single or multi-stranded	AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
temperature of the conductor for supply maximum permissible 75 °C	
material of the conductor for supply AL o	r CU
type of electrical connection for load-side outgoing feeder Box	ug
tightening torque [lbf·in] for load-side outgoing feeder 180	220 lbf-in
	0 AWG 500 MCM
type of connectable conductor cross-sections for AWG cables 2x 2/	
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded2x 2/temperature of the conductor for load-side outgoing feeder75 °C	
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded2x 2/temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCU	w-type terminals
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded2x 2/temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCUtype of electrical connection of magnet coilScreet	

AWG cables single or multi-stranded	
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 for 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 for 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
maximum short-circuit current breaking capacity (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	

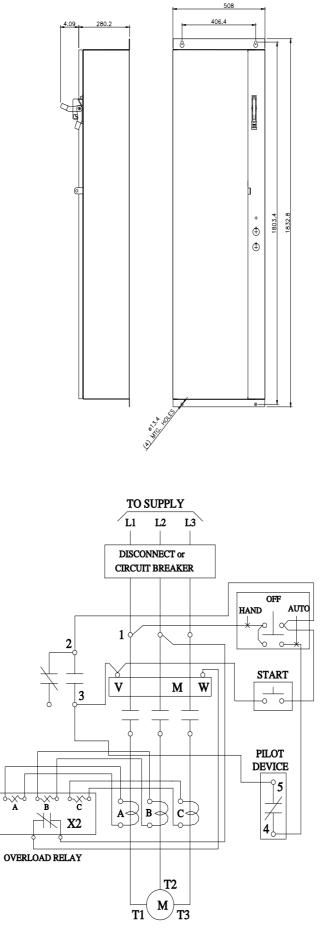
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPT6MH

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87LPT6MH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87LPT6MH&lang=en

Certificates/approvals

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