## **SIEMENS**

Data sheet US2:87IUH6MC



Pump control panel, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 220-240/440-480VAC 60Hz coil, Standard type contactor, 125A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

Figure similar	Fig	gur	es	im	il	ar
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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; Dual voltage coil	
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	
<ul> <li>during operation</li> </ul>	-4 +104 °F	
ambient temperature		
during storage	-30 +65 °C	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at 460/480 V rated value</li> </ul>	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	5000000	
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		

a at DC rated value	0 0 0	
at DC rated value     at AC at 50 Up rated value	0 0 V	
at AC at 50 Hz rated value	0 0 V	
at AC at 60 Hz rated value	220 480 V 14 W	
holding power at AC minimum		
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	310 VA 26 VA	
operating range factor control supply voltage rated value	0.85 1.1	
of magnet coil		
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	
<ul> <li>ground fault detection</li> </ul>	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)		
<ul> <li>with single-phase operation at AC rated value</li> </ul>	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 feeder	Box lug	

tightoning targue [lhf.in] for load side outgoing feeder	120 120 lbf·in
tightening torque [lbf-in] for load-side outgoing feeder	
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x (14 2/0 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 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	10 15 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 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=US2:87IUH6MC

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87IUH6MC&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87IUH6MC&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MC/certificate

last modified:	1/8/2022
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