## **SIEMENS**

Data sheet US2:87HUG6MJ



Pump control panel, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 24VAC 50-60Hz coil, Standard type contactor, 100A 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	ESP200 overload relay
General technical data	
weight [lb]	81 lb
Height x Width x Denth [in]	41 × 24 × 8 in

weight [ib]	61 ID
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

- daming operation	1 101 1
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsenower ratings	

yielded mechanical performance [hp] for 3-phase AC motor		
<ul><li>at 200/208 V rated value</li></ul>	25 hp	
<ul><li>at 220/230 V rated value</li></ul>	30 hp	
<ul><li>at 460/480 V rated value</li></ul>	50 hp	
<ul> <li>at 575/600 V rated value</li> </ul>	50 hp	

<ul><li>at 460/480 V rated value</li></ul>	50 hp
<ul><li>at 575/600 V rated value</li></ul>	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 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	10A@600VAC (A600), 5A@600VDC (P600)

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	

100 11 1	0. 01/
at DC rated value	0 0 V
at AC at 50 Hz rated value	24 24 V
at AC at 60 Hz rated value	24 24 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA
apparent holding power of magnet coil at AC	26 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- dependent overload release	25 100 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
<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	
OCCUPATION DESCRIPTION OF THE PROPERTY OF THE	Yes
product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch	Yes 30mm metal housing with matte finish
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button	30mm metal housing with matte finish Yes
type of Hand-Off-Auto selector switch product component start push button type of start push button	30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button type of start push button Circuit Breaker	30mm metal housing with matte finish Yes 30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button type of start push button  Circuit Breaker type of the motor protection	30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Motor circuit protector (magnetic trip only)
type of Hand-Off-Auto selector switch product component start push button type of start push button  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	30mm metal housing with matte finish Yes 30mm metal housing with matte finish
type of Hand-Off-Auto selector switch product component start push button type of start push button  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Motor circuit protector (magnetic trip only) 100 A
type of Hand-Off-Auto selector switch product component start push button type of start push button  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring	30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Motor circuit protector (magnetic trip only) 100 A 315 1000 A
type of Hand-Off-Auto selector switch product component start push button type of start push button  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position	30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Motor circuit protector (magnetic trip only) 100 A 315 1000 A
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tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
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=US2:87HUG6MJ

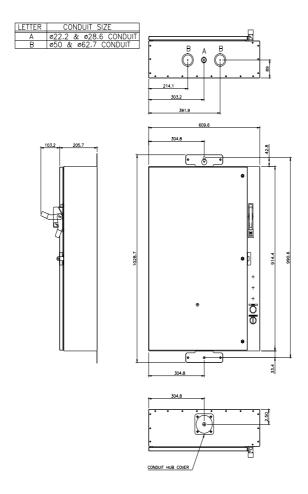
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:87HUG6MJ

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=US2:87HUG6MJ&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87HUG6MJ&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87HUG6MJ/certificate



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