## SIEMENS

## Data sheet

## US2:87FUF6MG



Pump control panel, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 190-220/220-240V 50/60Hz coil, Standard type contactor, 50A 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	ESP200 overload relay			
General technical data				
weight [lb]	48 lb			
Height x Width x Depth [in]	29 × 20 × 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]				
<ul> <li>during storage</li> </ul>	-22 +149 °F			
<ul> <li>during operation</li> </ul>	-4 +104 °F			
ambient temperature				
<ul> <li>during storage</li> </ul>	-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	10 hp			
<ul> <li>at 220/230 V rated value</li> </ul>	15 hp			
<ul> <li>at 460/480 V rated value</li> </ul>	25 hp			
• at 575/600 V rated value	25 hp			
Contactor				
size of contactor	NEMA controller size 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	45 A			
mechanical service life (switching cycles) of the main contacts typical	1000000			
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				

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at DC rated value	00V		
at AC at 50 Hz rated value	190 220 V		
• at AC at 60 Hz rated value	220 240 V		
holding power at AC minimum	8.6 W		
apparent pick-up power of magnet coil at AC	218 VA		
apparent holding power of magnet coil at AC	25 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	19 29 ms		
OFF-delay time	10 24 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	13 52 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			
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	50 A		
adjustable current response value current of instantaneous short-circuit trip unit	180 600 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 permissible	75 °C		
material of the conductor for supply	AL or CU		
type of electrical connection for load-side outgoing feeder	Box lug		

tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf in			
type of connectable conductor cross-sections at AWG	1x (14 2 AWG)			
cables for load-side outgoing feeder single or multi- stranded	1X (14 2 AVVO)			
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=US2:87FUF6MG				
Service&Support (Manuals, Certificates, Characteristics, FAQs,)				
https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF6MG				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87FUF6MG⟨=en				
Certificates/approvals				
https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF6MG/certificate				

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