SIEMENS

Data sheet US2:87FUF6MC

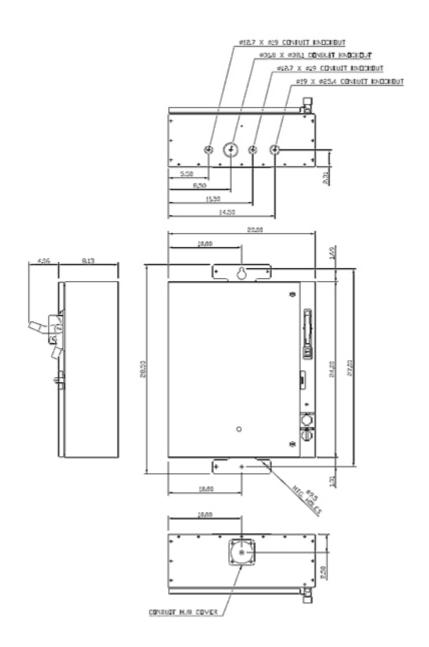


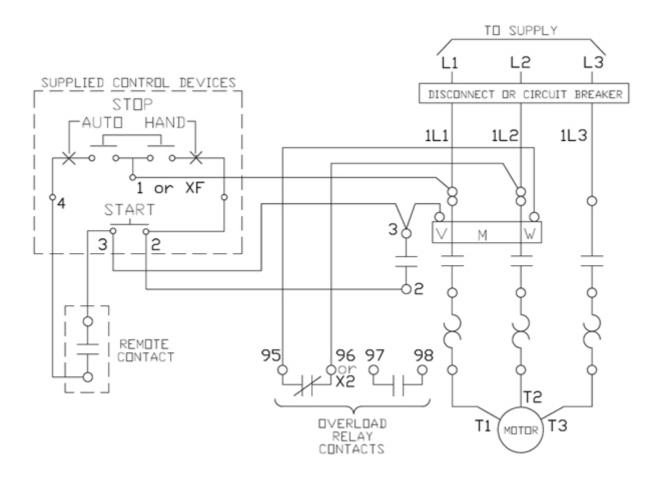
Pump control panel, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 220-240/440-480VAC 60Hz coil, Standard type contactor, 50A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

product brand name	Class 87	
design of the product	Pump control panel with MCP	
special product feature	ESP200 overload relay; Dual voltage coil	
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]		
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 	10 hp	
 at 220/230 V rated value 	15 hp	
 at 460/480 V rated value 	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	10000000	
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	
at DC 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
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 V·A
apparent holding power of magnet coil at AC	25 V·A
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	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	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	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	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 3/3R
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 chrome finish
product component start push button	Yes
type of start push button	30mm metal housing with chrome 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)

temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor of load-side outgoing feeder maximum permissible material of the conductor of load-side outgoing feeder maximum permissible material of the conductor at magnet coil type of electrical connection of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts the conductor at contactor for auxiliary contacts with the conductor at contactor for auxiliary contacts with the conductor at contactor for auxiliary contacts with the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts with the conductor at contactor for auxiliary contacts with the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts sangulary contacts sangulary contacts sangulary contacts sangulary contac		
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type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multistranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the short-circuit trip breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V Screw-type terminals Cu. 10 lbf-in 2x (20 14 AWG) CU CU To °C CU Instantaneous trip circuit breaker		75 °C
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relay at AWG cables for auxiliary contacts single or multi- stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the short-circuit trip Instantaneous trip circuit breaker breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V 25 kA		7 10 lbf-in
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design of the short-circuit trip breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V Instantaneous trip circuit breaker 100 kA 100 kA 25 kA		CU
breaking capacity maximum short-circuit current (Icu) • at 240 V	Short-circuit current rating	
 at 240 V at 480 V at 600 V 100 kA 25 kA 	design of the short-circuit trip	Instantaneous trip circuit breaker
 at 480 V at 600 V 100 kA 25 kA 	breaking capacity maximum short-circuit current (Icu)	
• at 600 V 25 kA	• at 240 V	100 kA
	• at 480 V	100 kA
certificate of suitability NEMA ICS 2; UL 508	• at 600 V	25 kA
	certificate of suitability	NEMA ICS 2; UL 508
Further information		





last modified: 4/27/2021 **C**