## **SIEMENS**

Data sheet US2:87FUF6LC



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, 60A fusible disconnect, 60A/250V fuse clip, 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 fused disconnect switch		
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	0 hp		
• at 575/600 V rated value	0 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	240 V		
operational current at AC at 600 V rated value	45 A		
mechanical service life (operating 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		
<ul> <li>at AC at 50 Hz rated value</li> </ul>	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 cell of AO	210 \/A			
apparent pick-up power of magnet coil at AC	218 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				
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 (Ui)				
insulation voltage (Ui)  • with single-phase operation at AC rated value	600 V			
	600 V 300 V			
with single-phase operation at AC rated value				
<ul><li>with single-phase operation at AC rated value</li><li>with multi-phase operation at AC rated value</li></ul>				
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Disconnect Switch	300 V			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Disconnect Switch     response value of switch disconnector	300 V 60A / 250V			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder	300 V  60A / 250V  Class H fuse clips			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link	300 V  60A / 250V  Class H fuse clips			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Enclosure	300 V  60A / 250V  Class H fuse clips  Class H, K and R			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure	300 V  60A / 250V  Class H fuse clips  Class H, K and R  NEMA Type 3R			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link  Enclosure degree of protection NEMA rating of the enclosure design of the housing	300 V  60A / 250V  Class H fuse clips  Class H, K and R  NEMA Type 3R			
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with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector design of fuse holder operating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Standard Control Devices product component Hand-Off-Auto selector switch	300 V  60A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use			
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch	300 V  60A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 30mm metal housing with matte finish			
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type of connectable conductor cross-sections of magnet coil for 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 for 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 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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)		
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=US2:87FUF6LC

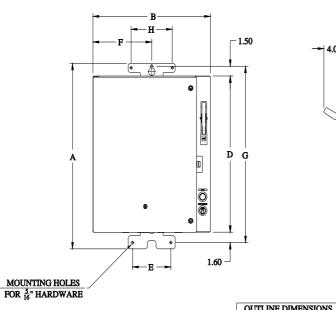
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

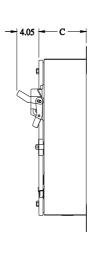
https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF6LC

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=US2:87FUF6LC&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87FUF6LC&lang=en</a>

Certificates/approvals

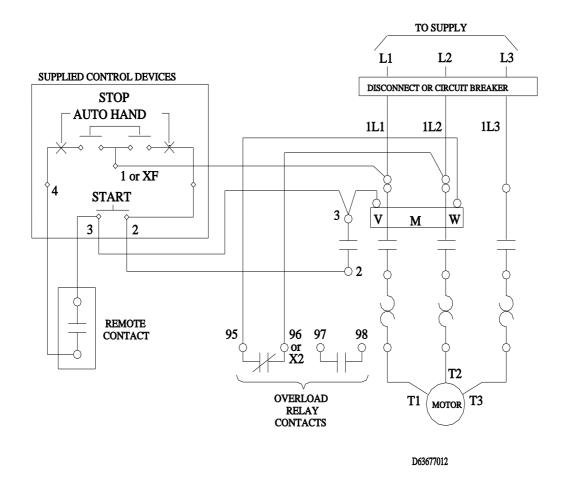
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Α	В	С				
28.50	20.00	8.06				
MOUNT	ING DIM	ENSIONS				
D	Е	F	G	H		
24.00	6.50	10.00	27.10	7.00		
CONDU	IT KNOCI	KOUTS				
I	J	K	L	M	N	0
5.50	8.50	11.50	14.50	1.12875	1.96-1.71	1.35-1.12

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