## **SIEMENS**

Data sheet US2:87LPU6FH



Pump control panel, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 440-480V 50-60Hz/DC coil, Standard type contactor, 400A fusible disconnect, 400A/600V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

Figure similar

product brand name	Class 87
design of the product	Pump control panel with fused disconnect switch
special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil
General technical data	
weight [lb]	205 lb
Height x Width x Depth [in]	72 × 20 × 11 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	
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	0 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	200 hp
● at 575/600 V rated value	200 hp
Contactor	
size of contactor	NEMA controller size 5
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	270 A
mechanical service life (switching cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	2
number of NO contacts at contactor for auxiliary contacts	2
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)

type of voltage of the control supply voltage  control supply voltage  at DC rated value  at AC at 50 Hz rated value  at AC at 60 Hz rated value  holding power at AC minimum  apparent pick-up power of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  Overload relay  product function  overload protection  parently detection asymmetry detection  oground fault detection  other input voltage  Yes  oground fault detection  oground fault detection  ves  ves  ves	
control supply voltage  • at DC rated value  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  holding power at AC minimum  7.4 W  apparent pick-up power of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  OFF-delay time  Overload relay  product function  • overload protection  • overload protection  • phase failure detection  • asymmetry detection  • ground fault detection  No	
<ul> <li>at DC rated value</li> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> <li>440 480 V</li> <li>at AC at 60 Hz rated value</li> <li>440 480 V</li> <li>holding power at AC minimum</li> <li>7.4 W</li> <li>apparent pick-up power of magnet coil at AC</li> <li>operating range factor control supply voltage rated value of magnet coil</li> <li>percental drop-out voltage of magnet coil related to the input voltage</li> <li>ON-delay time</li> <li>OFF-delay time</li> <li>OVerload relay</li> <li>product function</li> <li>overload protection</li> <li>phase failure detection</li> <li>asymmetry detection</li> <li>ground fault detection</li> <li>No</li> </ul>	
<ul> <li>◆ at AC at 60 Hz rated value</li> <li>holding power at AC minimum</li> <li>apparent pick-up power of magnet coil at AC</li> <li>operating range factor control supply voltage rated value of magnet coil</li> <li>percental drop-out voltage of magnet coil related to the input voltage</li> <li>ON-delay time</li> <li>OFF-delay time</li> <li>Overload relay</li> <li>product function</li> <li>◆ overload protection</li> <li>◆ phase failure detection</li> <li>◆ asymmetry detection</li> <li>◆ ground fault detection</li> <li>No</li> </ul>	
holding power at AC minimum  apparent pick-up power of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  Overload relay  product function  overload protection  phase failure detection  ground fault detection  operating range factor control supply voltage rated value  0.85 1.1  60 %  60 %  80 95 ms  Ves  40 80 ms  Ves  ophase failure detection  Yes  oground fault detection  No	
apparent pick-up power of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  Overload relay  product function  overload protection phase failure detection ground fault detection  operating range factor control supply voltage rated value 0.85 1.1  60 %  60 %  60 %  75 ms  75 ms  76 ms  76 ms  77 es  9 phase failure detection 77 es  9 ground fault detection No	
apparent pick-up power of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  Overload relay  product function  overload protection  phase failure detection  ground fault detection  ves  ves  ves  ves  ves  ves  ves  ve	
operating range factor control supply voltage rated value of magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OVERIOAR TELAY  Product function  overload protection  phase failure detection  ground fault detection  operating range factor control supply voltage rated value  0.85 1.1  60 %  30 95 ms  40 80 ms  Ves  Yes  phase failure detection  Yes  ground fault detection  No	
input voltage  ON-delay time  OFF-delay time  40 80 ms  Overload relay  product function  overload protection phase failure detection asymmetry detection ground fault detection No	
OFF-delay time 40 80 ms  Overload relay  product function  overload protection phase failure detection asymmetry detection ground fault detection No	
Overload relay  product function  overload protection phase failure detection asymmetry detection ground fault detection No	
product function  overload protection  phase failure detection  asymmetry detection  ground fault detection  No	
<ul> <li>overload protection</li> <li>phase failure detection</li> <li>asymmetry detection</li> <li>ground fault detection</li> <li>No</li> </ul>	
<ul> <li>phase failure detection</li> <li>asymmetry detection</li> <li>ground fault detection</li> <li>No</li> </ul>	
<ul> <li>asymmetry detection</li> <li>ground fault detection</li> <li>No</li> </ul>	
• ground fault detection No	
test function     Yes	
- toot idinotion	
• external reset Yes	
reset function Manual and automatic	
trip class CLASS 10	
adjustable current response value current of the current- dependent overload release 55 250 A	
product feature protective coating on printed-circuit board No	
number of NC contacts of auxiliary contacts of overload relay	
number of NO contacts of auxiliary contacts of overload relay	
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	
Disconnect Switch	
response value of switch disconnector 400A / 600V	
design of fuse holder Class H fuse clips	
operating class of the fuse link  Class H, J (convertible), K and R	
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	
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 at AWG cables single or multi-stranded  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)	
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
tightening torque [lbf·in] for load-side outgoing feeder	180 220 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	2x 2/0 AWG 500 MCM
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	7 10 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (18 14 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	7 10 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	2x (20 16 AWG), 2x (18 14 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 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)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87LPU6FHall.industry.siemens.com/mall/en/us/catalog/product/en/$ 

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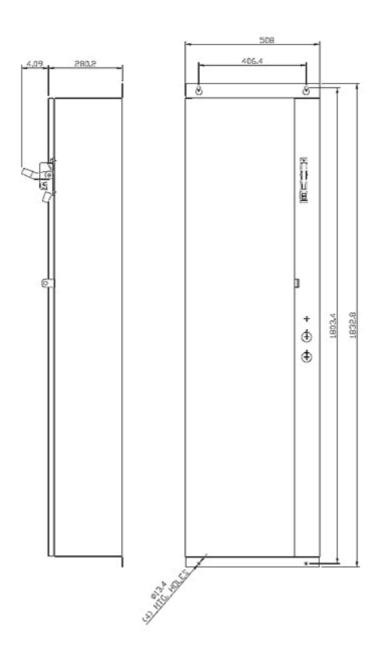
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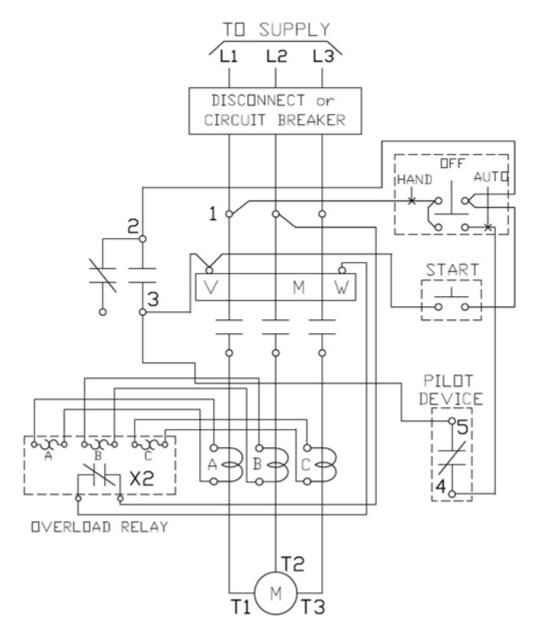
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87LPU6FH&lang=en

Certificates/approvals

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