SIEMENS

Data sheet

US2:87FUF6FC



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/600V 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 | 0 hp |
| • at 220/230 V rated value | 0 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 (operating 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 | |
| • 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 nick up power of magnet coil at AC | 218 VA |
|---|--|
| apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of | 0.85 1.1 |
| magnet coil | 0.05 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 | 1A |
| contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| insulation voltage (Ui) | |
| with single-phase operation at AC rated value | 600 V |
| | |
| with multi-phase operation at AC rated value | 300 V |
| with multi-phase operation at AC rated value Disconnect Switch | 300 V |
| | 300 V 60A / 600V |
| Disconnect Switch | |
| Disconnect Switch response value of switch disconnector | 60A / 600V |
| Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link | 60A / 600V Class H fuse clips |
| Disconnect Switch response value of switch disconnector design of fuse holder | 60A / 600V Class H fuse clips |
| Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure | 60A / 600V Class H fuse clips Class H, J (retrofittable), K and R |
| 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 | 60A / 600V Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R |
| 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 | 60A / 600V Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R |
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| 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 | 60A / 600V Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use |
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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=US2:87FUF6FC

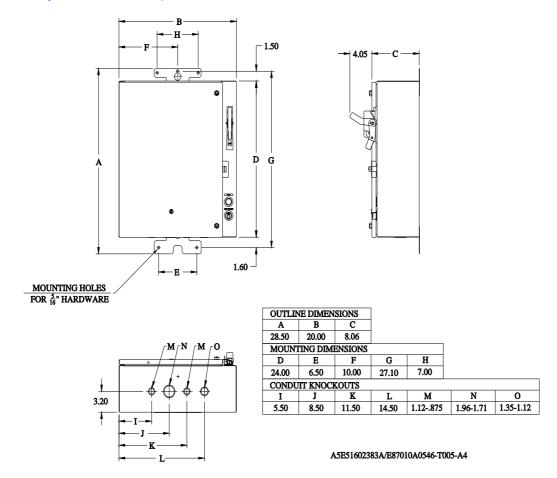
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

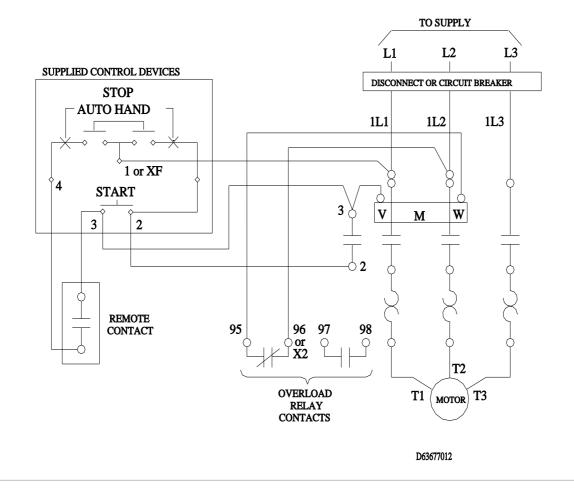
https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF6FC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87FUF6FC&lang=en

Certificates/approvals

https://support.industry.s iemens.com/cs/US/en/ps/US2:87FUF6FC/certificate





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