## SIEMENS

## Data sheet

## US2:87FUF60G



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, 100A fusible disconnect, 100A/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                           |
| 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                                     |
| during operation  | -4 +104 °F                                      |
| ambient temperature   |   |
| <ul> <li>during storage</li> </ul>                                      | -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  |
| <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  |   |

| at DC rated value   | 0 0 V                                |
|---|--------------------------------------|
| <ul> <li>at AC at 50 Hz rated value</li> </ul>  | 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                               |
| operating range factor control supply voltage rated value<br>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                                  |
| 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-                                 | 13 52 A                              |
| dependent overload release  |                                      |
| 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<br>_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<br>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                                |
| Disconnect Switch   |                                      |
| response value of switch disconnector   | 100A / 600V                          |
| design of fuse holder   | Class H fuse clips                   |
| operating class of the fuse link  | Class H, J (retrofittable), K and R  |
| Enclosure   |                                      |
| degree of protection NEMA rating of the enclosure   | NEMA Type 3R                         |
| design of the housing   | Weather proof for outdoor use        |
| 0   |                                      |
| 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 |
| Mounting/wiring   |                                      |
| mounting position   | Vertical                             |
| fastening method  | Surface mounting and installation    |
| type of electrical connection for supply voltage line-side                                | Box lug                              |
| tightening torque [lbf·in] for supply   | 120 120 lbf·in                       |
| type of connectable conductor cross-sections at line-side                                 |                                      |
| at AWG cables single or multi-stranded  | 1x (14 1/0 AWG)                      |
|   | 1x (14 1/0 AWG)<br>75 °C             |
| at AWG cables single or multi-stranded<br>temperature of the conductor for supply maximum |                                      |

| tightening torque [lbf·in] for load-side outgoing feeder  | 45 45 lbf·in  |  |
|---|---|--|
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded   | 1x (14 2 AWG)                                       |  |
| 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<br>at AWG cables for auxiliary contacts single or multi-<br>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-<br>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, Brochu  | ıres,)  |  |
| www.usa.siemens.com/iccatalog   |   |  |
| Industry Mall (Online ordering system)<br>https://mall.industry.siemens.com/mall/en/us/Catalog/product  | ?mlfb=US2:87FUF60G                                  |  |
| Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/US/en/ps/US2:87FU  | FAQs,)  |  |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)<br>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87FUF60G⟨=en |   |  |
| Certificates/approvals  |   |  |
| https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF60G/certificate   |   |  |

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