SIEMENS

Data sheet

US2:87IUH6MF



Pump control panel, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 110V 50Hz / 120V 60Hz coil, Standard type contactor, 125A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

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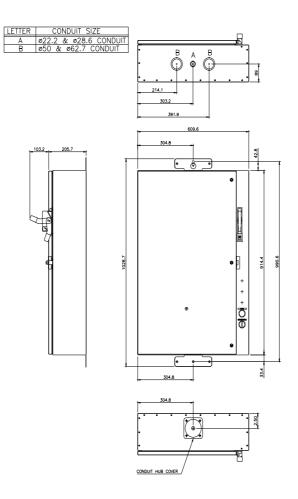
| product brand name | Class 87 | | |
|---|---|--|--|
| design of the product | Pump control panel with MCP | | |
| special product feature | Half-size controller; ESP200 overload relay | | |
| General technical data | | | |
| weight [lb] | 81 lb | | |
| Height x Width x Depth [in] | 41 × 24 × 8 in | | |
| 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 | 30 hp | | |
| • at 220/230 V rated value | 40 hp | | |
| • at 460/480 V rated value | 75 hp | | |
| • at 575/600 V rated value | 75 hp | | |
| Contactor | | | |
| size of contactor | Controller half size 3 1/2 | | |
| 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 | 115 A | | |
| mechanical service life (switching cycles) of the main contacts typical | 500000 | | |
| 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 | | | |

| | 0.01/ |
|---|--|
| at DC rated value | 00V |
| at AC at 50 Hz rated value | 110 110 V |
| • at AC at 60 Hz rated value | 120 120 V |
| holding power at AC minimum | 14 W |
| apparent pick-up power of magnet coil at AC | 310 VA |
| apparent holding power of magnet coil at AC | 26 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 | 26 41 ms |
| OFF-delay time | 14 19 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 | 50 200 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) | |
| 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 Type 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 matte finish |
| product component start push button | Yes |
| type of start push button | 30mm metal housing with matte finish |
| Circuit Breaker | |
| type of the motor protection | Motor circuit protector (magnetic trip only) |
| operational current of motor circuit breaker rated value | 125 A |
| adjustable current response value current of instantaneous short-circuit trip unit | 500 1250 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) |
| at AWG cables single or multi-stranded 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 tooder | Box lug |

| 120 120 lbf.ip | | | | |
|---|--|--|--|--|
| 120 120 lbf·in | | | | |
| 1x (14 2/0 AWG) | | | | |
| 75 °C | | | | |
| AL or CU | | | | |
| Screw-type terminals | | | | |
| 5 12 lbf·in | | | | |
| 2x (16 12 AWG) | | | | |
| 75 °C | | | | |
| CU | | | | |
| Screw-type terminals | | | | |
| 10 15 lbf·in | | | | |
| 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) | | | | |
| 75 °C | | | | |
| CU | | | | |
| Screw-type terminals | | | | |
| 7 10 lbf·in | | | | |
| 2x (20 14 AWG) | | | | |
| 75 °C | | | | |
| CU | | | | |
| | | | | |
| Instantaneous trip circuit breaker | | | | |
| | | | | |
| 100 kA | | | | |
| 100 kA | | | | |
| 25 kA | | | | |
| 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=US2:87IUH6MF | | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MF</u> | | | | |
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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=US2:87IUH6MF&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87IUH6MF/certificate



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