SIEMENS

## Data sheet US2:87JUH6FD

Pump control panel, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 208VAC 60Hz coil, Standard type contactor, 200A fusible disconnect, 200A/600V fuse clip, HOA Sel Sw. & Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

Figure similar

| General technical data | |
|---|---|
| Weight [lb] | 87 lb |
| Height x Width x Depth [in] | 41 × 24 × 8 in |
| 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 |
| Ambient temperature [°F] during operation | -4 ... +104 °F |
| Ambient temperature during storage | -30 ... +65 °C |
| Ambient temperature during operation | -20 ... +40 °C |
| Country of origin | USA |

| Horsepower ratings | |
|---|---|
| Yielded mechanical performance [hp] for three-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 | 100 hp |

| | |
|---|---|
| • at 575/600 V rated value | 100 hp |

| Contactor | |
|---|---|
| Number of NO contacts for main contacts | 3 |
| Operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| Operating current at AC at 600 V rated value | 135 A |
| Mechanical service life (switching cycles) of the main contacts typical | 5000000 |

| 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 60 Hz rated value | 208 ... 208 V |
| • at AC at 50 Hz rated value | 0 ... 0 V |
| Holding power at AC minimum | 22 W |
| Apparent pick-up power of magnet coil at AC | 510 V·A |
| 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 % |
| Switch-on delay time | 18 ... 34 ms |
| Off-delay time | 10 ... 12 ms |

| Overload relay | |
|---|---|
| Product function | |
| • Overload protection | Yes |
| • Phase failure detection | Yes |
| • Phase unbalance | 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 pick-up value current of the current-dependent overload release | 50 ... 200 A |

| | |
|---|---|
| Trip 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 |
| Operating 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 | |
|---|---|
| Rated response values of switch disconnector | 200A / 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 |
| (mounting type) | 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 conductors single or multi-stranded | 1x (6 AWG ... 300 Kcmil) |
| Temperature of the conductor for supply maximum permissible | 75 °C |
| 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 | 200 ... 200 lbf·in |

| | |
|---|---|
| Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded | 1x (6 AWG ... 250 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 | 5 ... 12 lbf·in |
| Type of connectable conductor cross-sections of magnet coil at AWG conductors 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 at AWG conductors 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 at AWG conductors 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) |

## Further information

**Industrial Controls - Product Overview (Catalogs, Brochures,…)**
www.usa.siemens.com/iccatalog

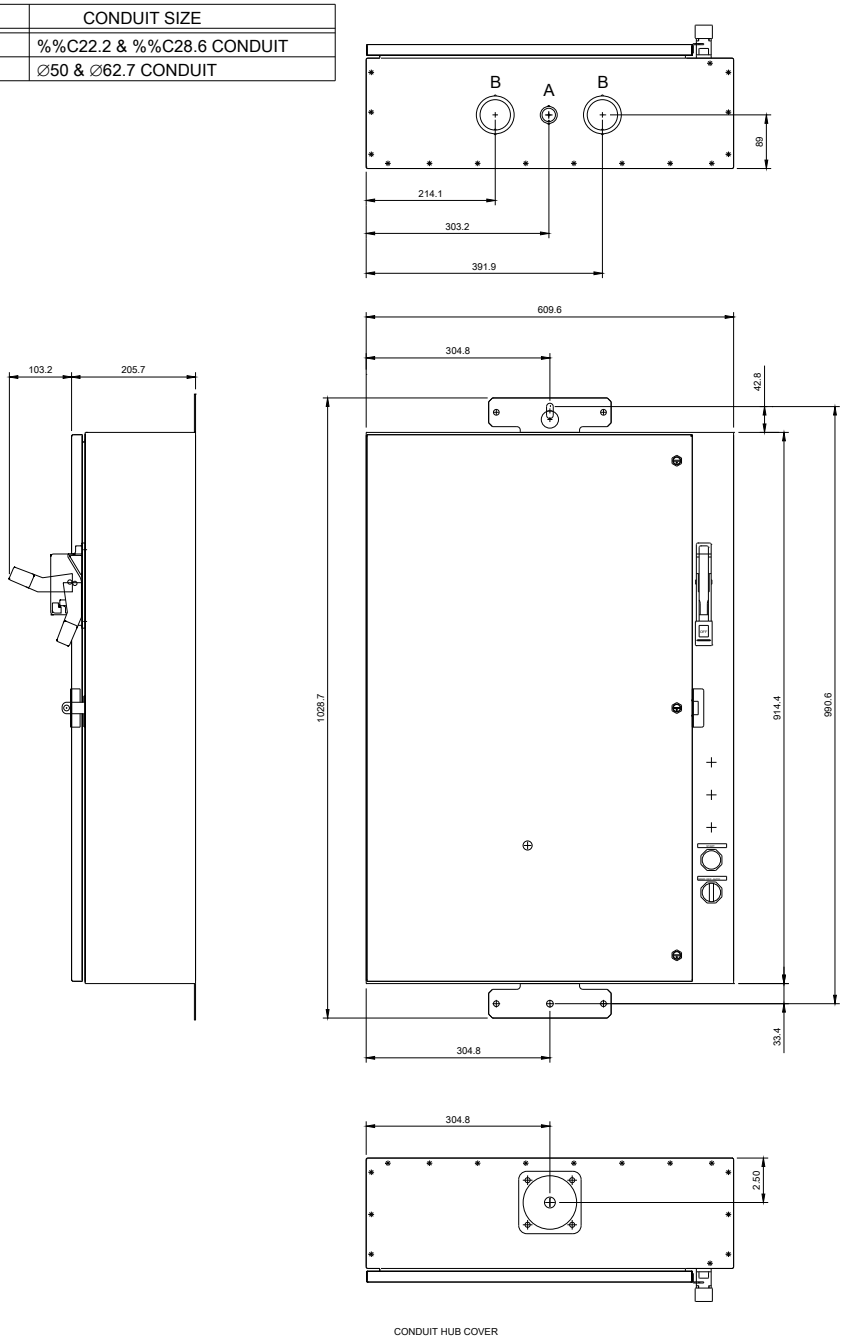
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87JUH6FD

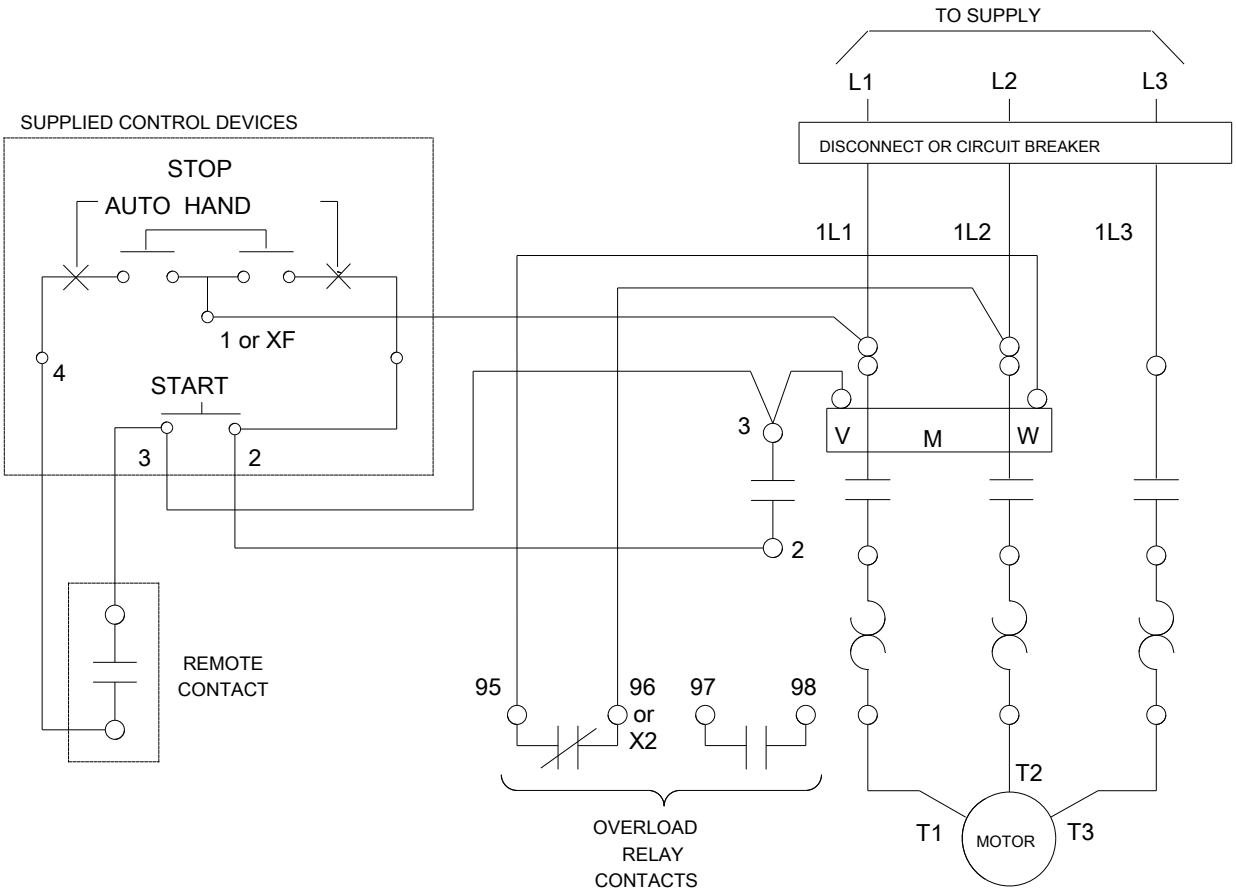
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/US/en/ps/US2:87JUH6FD

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87JUH6FD&lang=en

**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/US2:87JUH6FD/certificate

| LETTER | CONDUIT SIZE |
|---|---|
| A | %%C22.2 & %%C28.6 CONDUIT |
| B | ∅50 & ∅62.7 CONDUIT |






**last modified:** 05/20/2019