SIEMENS

Data sheet US2:22HP32FG81



Figure similar

Reversing motor starter Size 3 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 90 AMP Non-combination type Encl NEMA type 4X Fiberglass Water/dust tight non-corrosive

| General technical data | |
|--|--------------------------|
| Weight [lb] | 47 lb |
| Height x Width x Depth [in] | 24 × 24 × 7 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 |

Yielded mechanical performance [hp] for three-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value 50 hp

| ● at 575/600 V rated value | 50 hp |
|--|-------------------------------------|
| Contactor | |
| Number of NO contacts for main contacts | 3 |
| Operating voltage for main current circuit at AC at 60 | 600 V |
| Hz maximum | |
| Operating current at AC at 600 V rated value | 90 A |
| Mechanical service life (switching cycles) of the main | 5000000 |
| contacts typical | |
| Auxiliary contact | |
| Number of NC contacts at contactor for auxiliary | 0 |
| contacts | |
| Number of NO contacts at contactor for auxiliary | 1 |
| contacts | |
| Number of total auxiliary contacts maximum | 7 |
| Contact rating of auxiliary contacts of contactor | 10A@600VAC (A600), 5A@600VDC (P600) |
| according to UL | |
| 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 | 220 240 V |
| • at AC at 50 Hz rated value | 190 220 V |
| Holding power at AC minimum | 14 W |
| Apparent pick-up power of magnet coil at AC | 310 V·A |
| Apparent holding power of magnet coil at AC | 26 V·A |
| Operating range factor control supply voltage rated | 0.85 1.1 |
| value of magnet coil | |
| Percental drop-out voltage of magnet coil related to | 50 % |
| the input voltage | |
| Switch-on delay time | 26 41 ms |
| Off-delay time | 14 19 ms |
| Overload relay | |
| Product function | |
| Overload protection | Yes |
| Test function | Yes |
| External reset | Yes |
| Reset function | Manual and automatic |
| Adjustment range of thermal overload trip unit | 0.85 1.15 |
| Number of NC contacts of auxiliary contacts of | 3 |
| overload relay | |
| Number of NO contacts of auxiliary contacts of | 0 |
| overload relay | |

| Operating current of auxiliary contacts of overload relay | |
|--|------------------------------------|
| • at AC at 600 V | 5 A |
| ● at DC at 250 V | 5 A |
| Contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 5A@250VDC (P300) |

| Enclosure | |
|---|--|
| Degree of protection NEMA rating of the enclosure | NEMA 4X fiberglass enclosure |
| Design of the housing | Dust-tight, watertight & corrosion resistant |

| Mounting/wiring | |
|---|---|
| Mounting position | Vertical |
| (mounting type) | 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 |
| 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 | Screw-type terminals |
| Tightening torque [lbf·in] for load-side outgoing feeder | 35 50 lbf·in |
| 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 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 | 5 12 lbf·in |

| Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded | 2x (16 12 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

Maximum short-circuit current breaking capacity (Icu)

at 240 Vat 480 V0 kA0 kA

• at 600 V 0 kA

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=US2:22HP32FG81

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

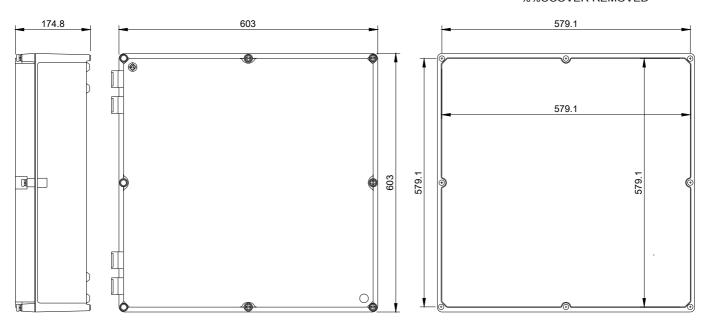
https://support.industry.siemens.com/cs/US/en/ps/US2:22HP32FG81

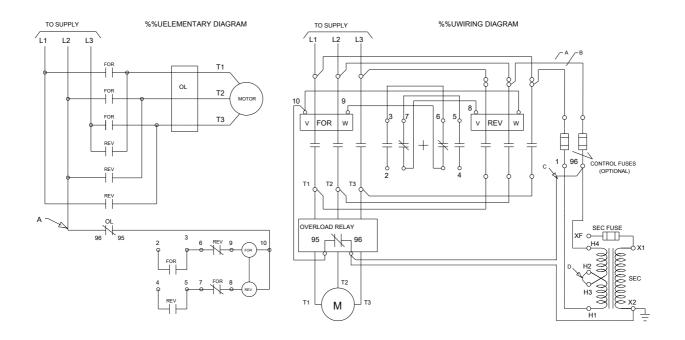
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22HP32FG81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22HP32FG81/certificate

%%UCOVER REMOVED





D46590003

last modified: 05/08/2019