



2-speed 3-phase motor starter, Size 2, One winding consequent pole, Constant or variable torque, Solid-state overload relays, Low Spd OLR range 13-52A, High Spd OLR range 13-52A, Encl. NEMA type 4X fiberglass, Water/dust tight noncorrosive

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| product brand name | Class 30 |
| design of the product | Full-voltage two speed motor starter |
| special product feature | ESP200 overload relay; Dual voltage coil |
| General technical data | |
| weight [lb] | 39 lb |
| Height x Width x Depth [in] | 24 × 24 × 7 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 | 10 hp |
| • at 220/230 V rated value | 15 hp |
| • at 460/480 V rated value | 25 hp |
| • at 575/600 V rated value | 25 hp |
| Contactors | |
| size of contactor | NEMA controller size 2 |
| number of NO contacts for main contacts | 6 |
| 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 | 10000000 |
| Auxiliary contact | |
| number of NC contacts at contactor for auxiliary contacts | 2 |
| number of NO contacts at contactor for auxiliary contacts | 2 |
| number of total auxiliary contacts maximum | 7 |
| contact rating of auxiliary contacts of contactor according to UL | 10A@600VAC (A600), 2.5A@300VDC (Q300) |
| Coil | |
| type of voltage of the control supply voltage | AC |
| control supply voltage | |
| • at AC at 60 Hz rated value | 220 ... 480 V |
| holding power at AC minimum | 17 W |

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| apparent pick-up power of magnet coil at AC | 436 VA |
| apparent holding power of magnet coil at AC | 50 VA |
| operating range factor control supply voltage rated value of magnet coil | 0 ... 1 |
| percentual 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 / 20 (factory set) / 30 |
| adjustable current response value current of overload relay | |
| • for low rotational speed | 13 ... 52 A |
| • for high rotational speed | 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 | 1 A |
| contact rating of auxiliary contacts of overload relay according to UL | 5 |
| insulation voltage (Ui) | |
| • with single-phase operation at AC rated value | 600 V |
| • with multi-phase operation at AC rated value | 300 V |
| Enclosure | |
| design of the housing | dustproof, waterproof & resistant to corrosion |
| 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 | 45 lbf-in |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 1 |
| 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 | 45 lbf-in |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 1 |
| 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 for AWG cables single or multi-stranded | 2 |
| 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 |

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| type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded | 1 |
| 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 | 2 |
| 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

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|---|-------------------------------------|
| design of the fuse link for short-circuit protection of the main circuit required | 10 |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (I _{cu}) | |
| • at 240 V | 14 kA |
| • at 480 V | 10 kA |
| • at 600 V | 10 kA |
| certificate of suitability | NEMA ICS 2; UL 508; CSA 22.2, No.14 |

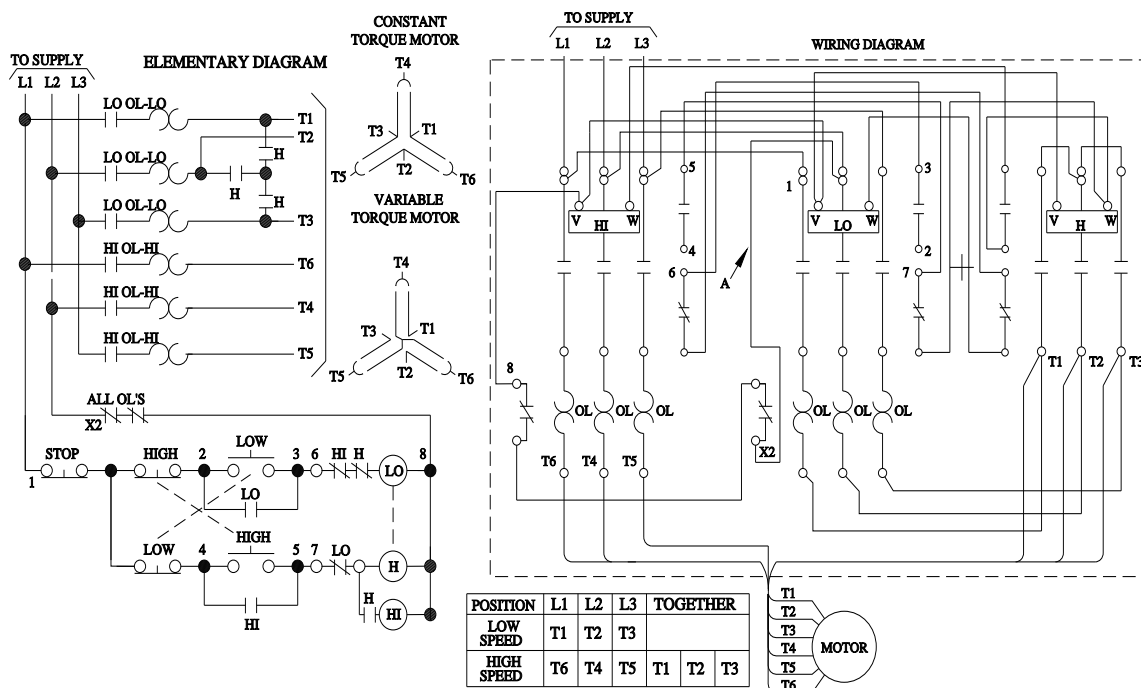
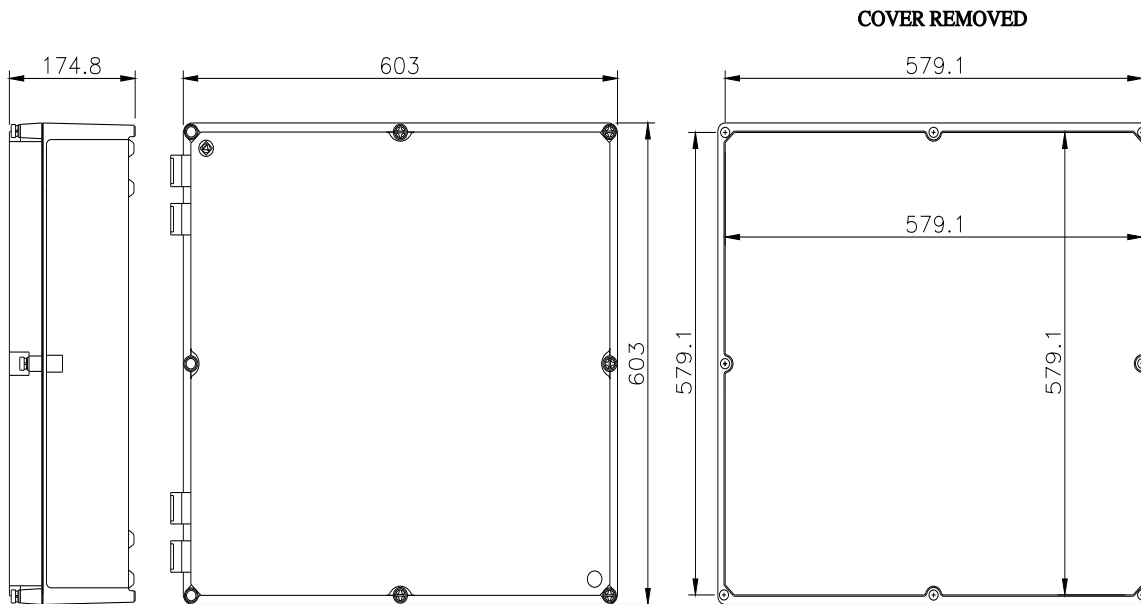
Approvals Certificates

Test Certificates



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=US2:30FUFF32F2VC>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/US/en/ps/US2:30FUFF32F2VC>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30FUFF32F2VC&lang=en
- Certificates/approvals
<https://support.industry.siemens.com/cs/US/en/ps/US2:30FUFF32F2VC/certificate>



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