



Non-reversing NEMA contactor, Size 2, Single phase full voltage, Contactor amp rating 45A, 3 wire (NO aux included), 110-120/220-240VAC 60Hz coil, Non-combination type, Encl. NEMA type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

| | |
|---|---------------------------------------|
| product brand name | Class 40 |
| design of the product | Non-reversing contactor |
| special product feature | Dual voltage coil |
| General technical data | |
| weight [lb] | 15 lb |
| Height x Width x Depth [in] | 15 × 12 × 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 single-phase AC motor | |
| • at 115 V rated value | 3 hp |
| • at 200/208 V rated value | 7.5 hp |
| • at 220/230 V rated value | 7.5 hp |
| • at 460/480 V rated value | 0 hp |
| • at 575/600 V rated value | 0 hp |
| Contactors | |
| size of contactor | NEMA controller size 2 |
| number of NO contacts for main contacts | 2 |
| operating voltage for main current circuit at AC at 60 Hz maximum | 240 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 | 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), 2.5A@300VDC (Q300) |
| Coil | |
| type of voltage of the control supply voltage | AC |
| control supply voltage | |
| • at AC at 60 Hz rated value | 110 ... 240 V |

| | |
|--|--------------|
| holding power at AC minimum | 8.6 W |
| apparent pick-up power of magnet coil at AC | 218 VA |
| apparent holding power of magnet coil at AC | 25 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |
| 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 |

Enclosure

| | |
|---|--|
| degree of protection NEMA rating of the enclosure | NEMA 4X fiberglass 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 | 1x (14 ... 2 AWG) |
| 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 | 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 for 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 for AWG cables 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 |

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) |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (I _{cu}) | |
| • at 240 V | 14 A |
| • at 480 V | 10 A |
| • at 600 V | 10 A |
| 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=US2:40FP12FA>

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

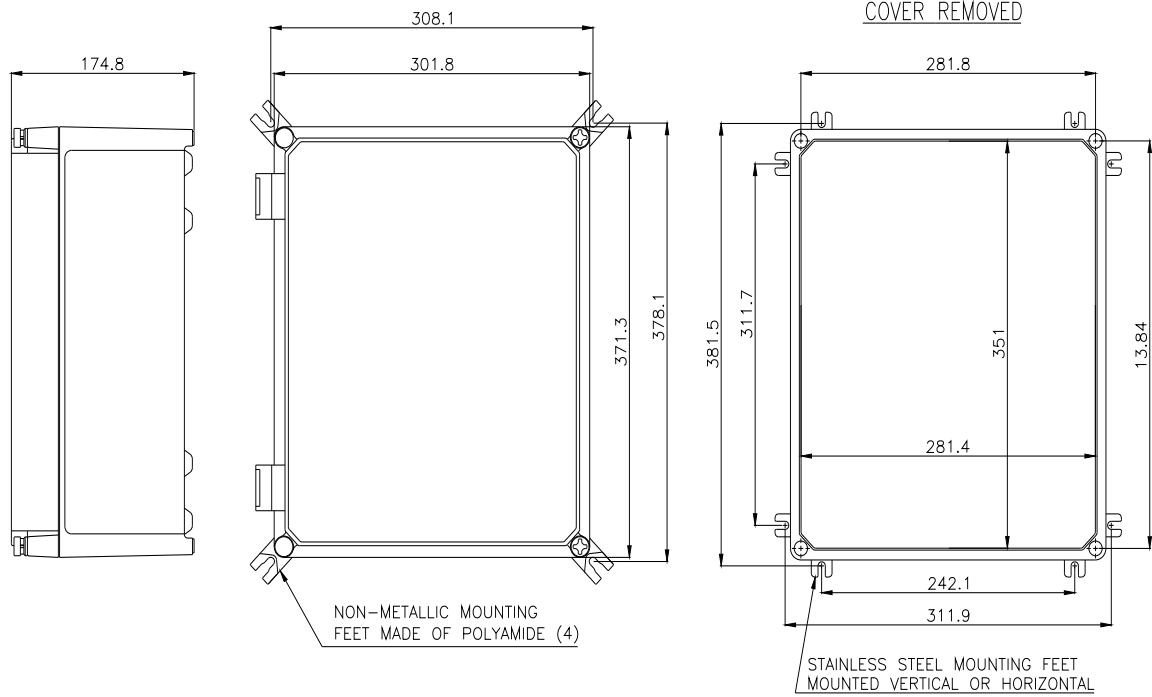
<https://support.industry.siemens.com/cs/US/en/ps/US2:40FP12FA>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

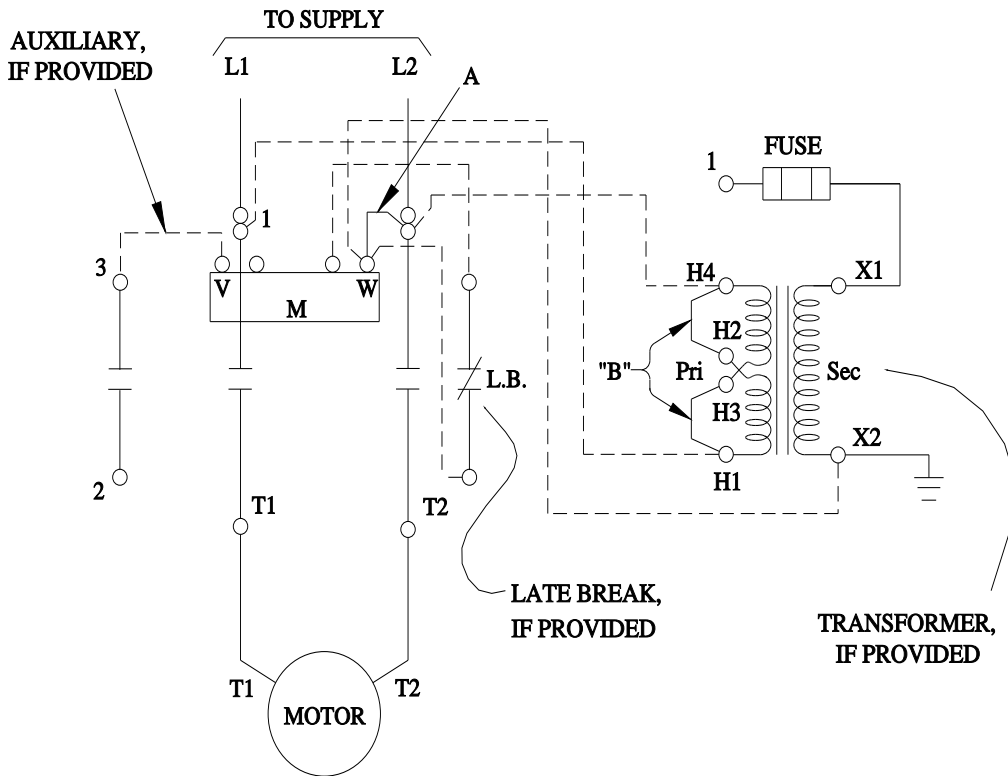
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40FP12FA&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:40FP12FA/certificate>



WIRING DIAGRAM



D29277001

last modified:

10/23/2025 