SIEMENS

Data sheet US2:40HP12BF



Non-reversing NEMA contactor, Size 3, Single phase full voltage, Contactor amprating 90A, 3 wire (NO aux included), 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Standard width enclosure

| product brand name | Class 40 | | |
|---|--|--|--|
| design of the product | Non-reversing contactor | | |
| special product feature | Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil | | |
| General technical data | | | |
| weight [lb] | 25 lb | | |
| Height x Width x Depth [in] | 20 × 12 × 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 single-phase AC motor | | | |
| • at 115 V rated value | 7.5 hp | | |
| • at 200/208 V rated value | 15 hp | | |
| • at 220/230 V rated value | 15 hp | | |
| • at 460/480 V rated value | 0 hp | | |
| • at 575/600 V rated value | 0 hp | | |
| Contactor | | | |
| size of contactor | NEMA controller size 3 | | |
| 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 | 90 A | | |
| mechanical service life (operating 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 AC at 50 Hz rated value | 110 V | | |
| at AC at 60 Hz rated value | 120 V | | |

| holding power at AC minimum | 14 W | | |
|--|---|--|--|
| apparent pick-up power of magnet coil at AC | 310 VA | | |
| | 26 VA | | |
| apparent holding power of magnet coil at AC | | | |
| 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 | | |
| Enclosure | | | |
| degree of protection NEMA rating of the enclosure | NEMA Type 1 | | |
| design of the housing | indoors, usable on a general basis | | |
| 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 | 120 120 lbf·in | | |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 1x (14 2/0 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 | 120 120 lbf·in | | |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 1x (14 2/0 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 (Icu) | · | | |
| • 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 | | |
| Further information | NEIM (100 2, 01 000, 00/(22.2, 10.17 | | |
| Industrial Controls - Dradust Overview (Catalogs - Preshures | | | |

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=US2:40HP12BF

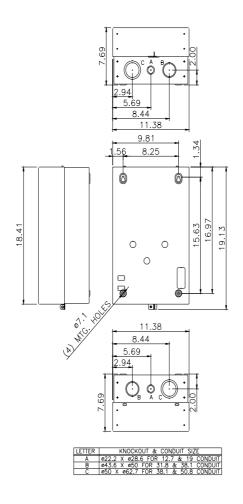
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:40HP12BF

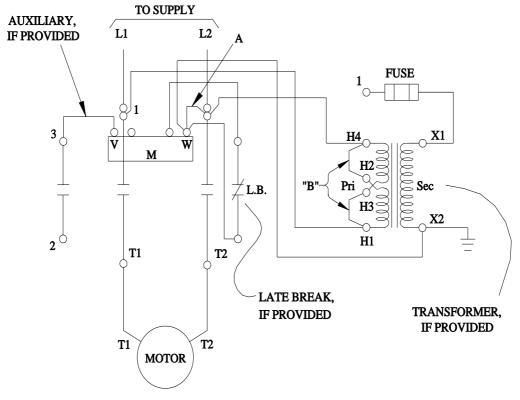
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40HP12BF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:40HP12BF/certificate



WIRING DIAGRAM



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