## **SIEMENS**

Data sheet US2:40HP320D



Non-reversing NEMA contactor, Size 3, Three phase full voltage, Contactor amp rating 90A, 3 wire (NO aux included), 208VAC 60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors, 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]   | 33 lb  |
| Height x Width x Depth [in]   | 26 × 13 × 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 3-phase AC motor                |  |
| • at 200/208 V rated value  | 25 hp  |
| • at 220/230 V rated value  | 30 hp  |
| • at 460/480 V rated value  | 50 hp  |
| • at 575/600 V rated value  | 50 hp  |
| Contactor   |  |
| size of contactor   | NEMA controller size 3   |
| number of NO contacts for main contacts                                 | 3  |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 600 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 60 Hz rated value  | 208 208 V  |
| holding power at AC minimum   | 14 W   |
| apparent pick-up power of magnet coil at AC                             | 310 VA   |

| apparent holding power of magnet coil at AC  | 26 VA   |
|--|---|
| operating range factor control supply voltage rated value of   | 0.85 1.1  |
| magnet coil percental drop-out voltage of magnet coil related to the input   | 50 %  |
| voltage  |   |
| ON-delay time  | 26 41 ms  |
| OFF-delay time   | 14 19 ms  |
| Enclosure  |   |
| degree of protection NEMA rating of the enclosure  | NEMA Type 12  |
| design of the housing  | dustproof and drip-proof for indoor use             |
| 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  |   |

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

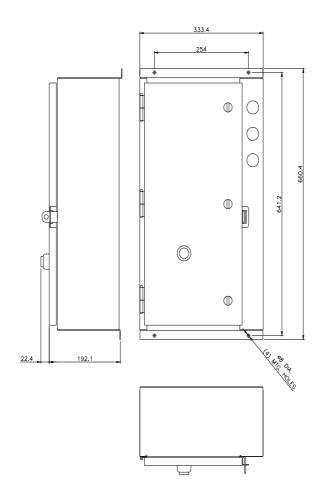
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40HP320D

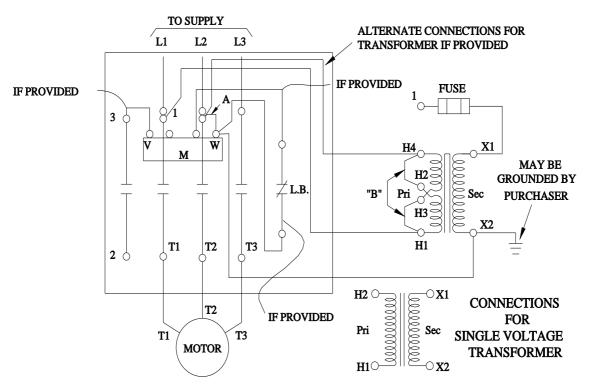
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:40HP320D&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:40HP320D&lang=en</a>

Certificates/approvals

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## WIRING DIAGRAM



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