

## Data sheet

US2:40EP32AL



Non-reversing contactor, Size 1 3/4, Three phase full voltage, Contactor amp rating 40A, 3 wire (NO aux included), 240V 50Hz / 277V 60Hz coil, Non-combination type. Enclosure NEMA type (open). No enclosure

|                                                                         |                             |
|-------------------------------------------------------------------------|-----------------------------|
| product brand name                                                      | Class 40                    |
| design of the product                                                   | Non-reversing contactor     |
| special product feature                                                 | Half-size controller        |
| General technical data                                                  |                             |
| weight [lb]                                                             | 3 lb(av)                    |
| Height x Width x Depth [in]                                             | 4.5 × 5.75 × 3.89 in        |
| touch protection against electrical shock                               | Not finger-safe             |
| 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                                                       | Mexico                      |
| 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                                              | 10 hp                       |
| • at 460/480 V rated value                                              | 15 hp                       |
| • at 575/600 V rated value                                              | 15 hp                       |
| Contactor                                                               |                             |
| size of contactor                                                       | Controller half size 1 3/4  |
| 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                          | 40 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                              | 8                           |
| contact rating of auxiliary contacts of contactor according to UL       | 345VA@115VAC / 768VA@240VAC |
| Coil                                                                    |                             |
| type of voltage of the control supply voltage                           | AC                          |
| control supply voltage                                                  |                             |
| • at AC at 50 Hz rated value                                            | 240 V                       |
| • at AC at 60 Hz rated value                                            | 277 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 | Open device (no enclosure) |
| design of the housing                             | NA                         |

#### Mounting/wiring

|                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| mounting position                                                                                                        | Vertical                                            |
| fastening method                                                                                                         | Surface mounting and installation                   |
| type of electrical connection for supply voltage line-side                                                               | Screw-type terminals                                |
| tightening torque [lbf-in] for supply                                                                                    | 45 ... 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                                                              | Screw-type terminals                                |
| tightening torque [lbf-in] for load-side outgoing feeder                                                                 | 45 ... 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 (Icu) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 14 A<br>10 A<br>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](http://www.usa.siemens.com/iccatalog)

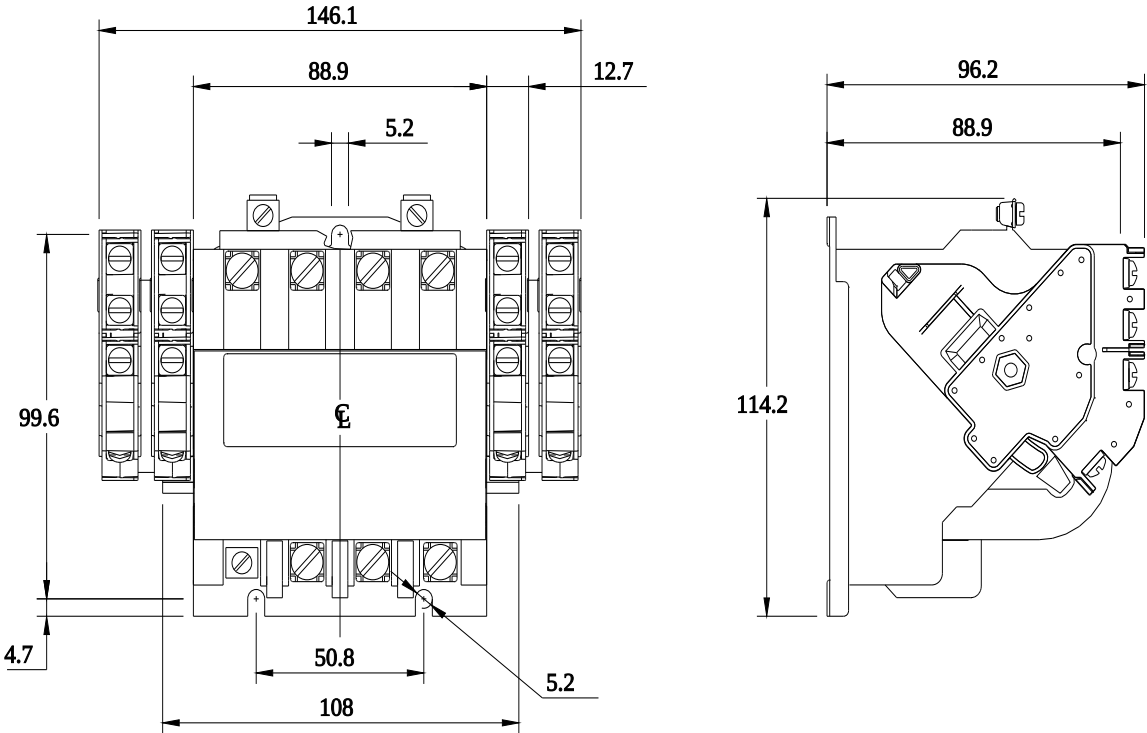
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40EP32AL>

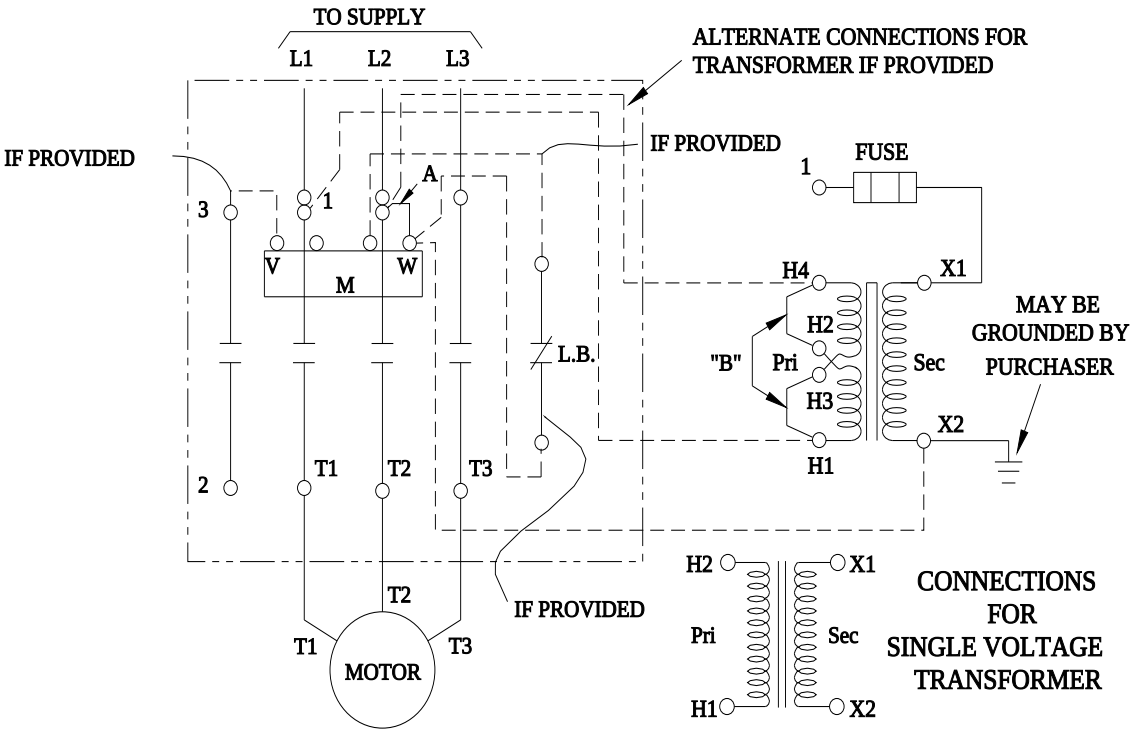
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/US/en/ps/US2:40EP32AL>

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



WIRING DIAGRAM



D29223001

