## **SIEMENS**

Data sheet US2:40GP82BL



Non-reversing contactor, Size 2 1/2, Three phase full voltage, Contactor amp rating 60A, 3 wire (NO aux included), 240V 50Hz / 277V 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

| product brand name  | Class 40                            |
|---|-------------------------------------|
| design of the product   | Non-reversing contactor             |
| special product feature   | Half-size controller                |
| General technical data  |                                     |
| weight [lb]   | 21 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 3-phase AC motor                |                                     |
| <ul><li>at 200/208 V rated value</li></ul>                              | 15 hp                               |
| <ul><li>at 220/230 V rated value</li></ul>                              | 20 hp                               |
| • at 460/480 V rated value  | 30 hp                               |
| • at 575/600 V rated value  | 30 hp                               |
| Contactor   |                                     |
| size of contactor   | Controller half size 2 1/2          |
| 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                          | 60 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), 5A@600VDC (P600) |
| 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  | 0.85 1.1  |
| magnet coil   |   |
| percental 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 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   | 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   | Box lug   |
| 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<br>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)

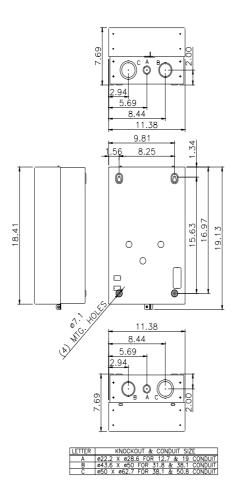
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40GP82BL

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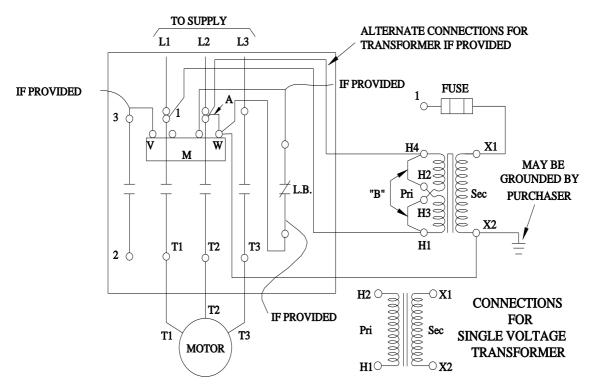
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:40GP82BL&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:40GP82BL&lang=en</a>

Certificates/approvals

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## WIRING DIAGRAM



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