SIEMENS

## Data sheet US2:43EP12BC




Reversing contactor, Size 1P, Single phase full voltage, Contactor amp rating 35A, 3 wire (NO aux included), 220-240/440-480VAC 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Standard width enclosure

| | |
|---|---|
| product brand name | Class 43 |
| design of the product | Reversing contactor |
| special product feature | Half-size controller; Dual voltage coil |
| **General technical data** | |
| weight [lb] | 22 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 | 3 hp |
| ● at 200/208 V rated value | 5 hp |
| ● at 220/230 V rated value | 5 hp |
| ● at 460/480 V rated value | 0 hp |
| ● at 575/600 V rated value | 0 hp |
| **Contactor** | |
| size of contactor | Controller half size 1 3/4 |
| 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 | 35 A |
| mechanical service life (operating cycles) of the main contacts typical | 10000000 |
| **Auxiliary contact** | |
| number of NC contacts at contactor for auxiliary contacts | 2 |
| number of NO contacts at contactor for auxiliary contacts | 2 |
| 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 60 Hz rated value | 220 ... 480 V |


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|---|---|
| holding power at AC minimum | 8.6 W |
| apparent pick-up power of magnet coil at AC | 218 V·A |
| apparent holding power of magnet coil at AC | 25 V·A |
| 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 | 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 | screw terminal |
| 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 | Screw-type terminal |
| 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 terminal |
| 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 |
| **Approvals Certificates** | |
| **Test Certificates** | |

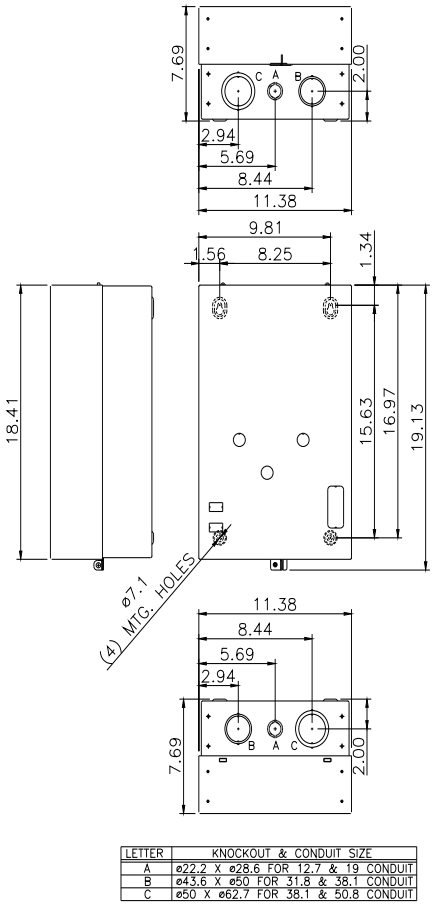
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**Further information**

**Industrial Controls - Product Overview (Catalogs, Brochures,…)**
www.usa.siemens.com/iccatalog

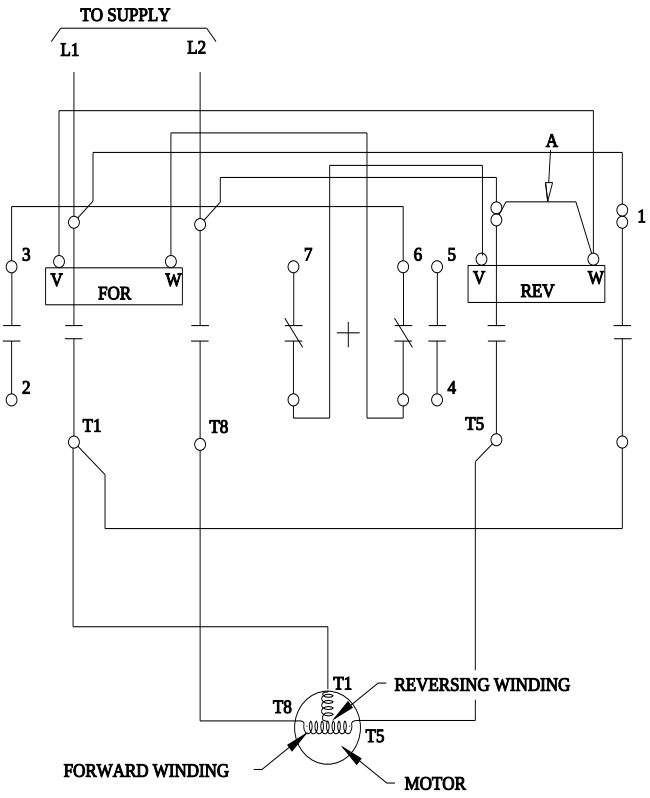

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**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:43EP12BC
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https://support.industry.siemens.com/cs/US/en/ps/US2:43EP12BC
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**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/US2:43EP12BC/certificate




| LETTER | KNOCKOUT & CONDUIT SIZE |
|---|---|
| A | ø22.2 X ø28.6 FOR 12.7 & 19 CONDUIT |
| B | ø43.6 X ø50 FOR 31.8 & 38.1 CONDUIT |
| C | ø50 X ø62.7 FOR 38.1 & 50.8 CONDUIT |


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