SIEMENS

## Data sheet US2:22BUA32AD

Figure similar

Reversing motor starter, Size 00, Three phase full voltage, Solid-state overload relay, OLRelay amp range 0.25-1a, 208VAC 60HZ coil, Non-combination type, Enclosure type (open), No enclosure

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|---|---|
| product brand name | Class 22 |
| design of the product | Full-voltage reversing motor starter |
| special product feature | ESP200 overload relay |
| **General technical data** | |
| weight [lb] | 6 lb |
| Height x Width x Depth [in] | 7.69 × 10.5 × 3.92 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 | 0.17 hp |
| ● at 220/230 V rated value | 0.17 hp |
| ● at 460/480 V rated value | 0.33 hp |
| ● at 575/600 V rated value | 0.5 hp |
| **Contactor** | |
| size of contactor | NEMA controller size 00 |
| 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 | 9 A |
| mechanical service life (switching 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 | 10A@600VAC (A600), 5A@600VDC (P600) |
| **Coil** | |
| type of voltage of the control supply voltage | AC |
| control supply voltage | |

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| ● at AC at 60 Hz rated value | 208 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 |
| 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 |
| **Overload relay** | |
| product function | |
| ● overload protection | Yes |
| ● phase failure detection | Yes |
| ● asymmetry detection | Yes |
| ● ground fault detection | Yes |
| ● test function | Yes |
| ● external reset | No |
| reset function | Manual, automatic and remote |
| trip class | CLASS 5 / 10 / 20 (factory set) / 30 |
| adjustable current response value current of the current-dependent overload release | 0.25 ... 1 A |
| make time with automatic start after power failure maximum | 3 s |
| relative repeat accuracy | 1 % |
| product feature protective coating on printed-circuit board | Yes |
| number of NC contacts of auxiliary contacts of overload relay | 1 |
| number of NO contacts of auxiliary contacts of overload relay | 1 |
| operational current of auxiliary contacts of overload relay | |
| ● at AC at 600 V | 5 A |
| ● at DC at 250 V | 1 A |
| contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| insulation voltage (Ui) | |
| ● with single-phase operation at AC rated value | 600 V |
| ● with multi-phase operation at AC rated value | 300 V |
| **Enclosure** | |
| degree of protection NEMA rating | 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 | 20 ... 20 lbf·in |
| type of connectable conductor cross-sections at line-side at 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 | 20 ... 24 lbf·in |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 2x (14 ... 10 AWG) |
| temperature of the conductor for load-side outgoing feeder maximum permissible | 75 °C |
| material of the conductor for load-side outgoing feeder | 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 at AWG cables single or multi-stranded | 2x (16 ... 12 AWG) |

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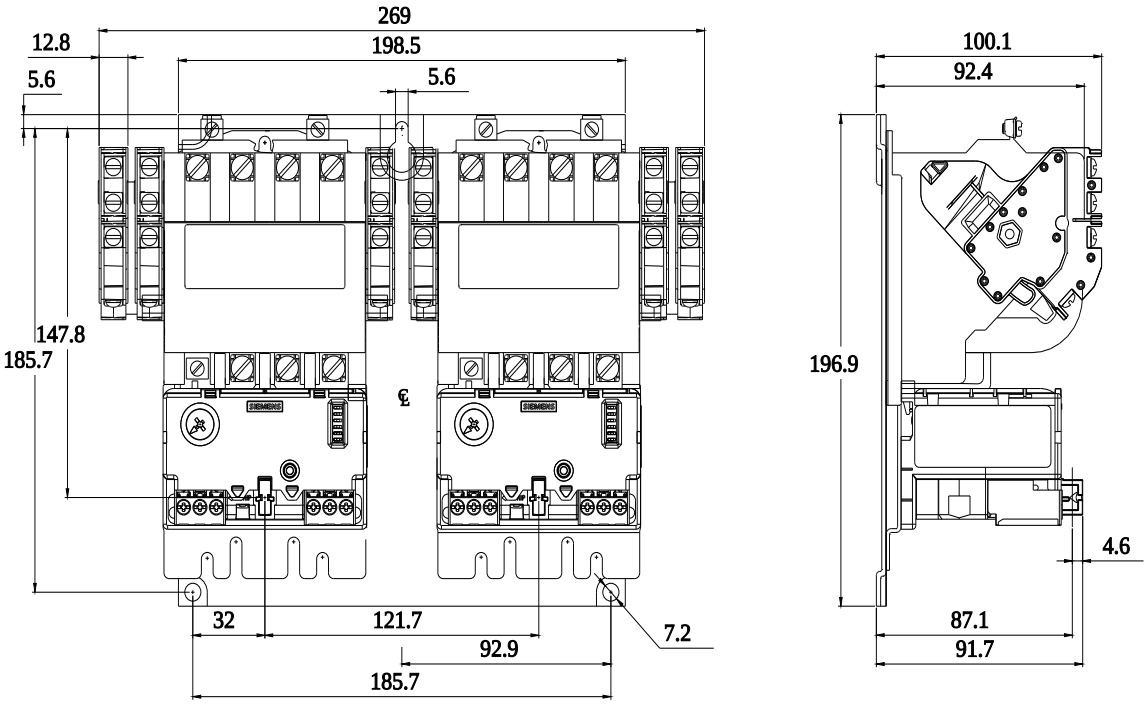
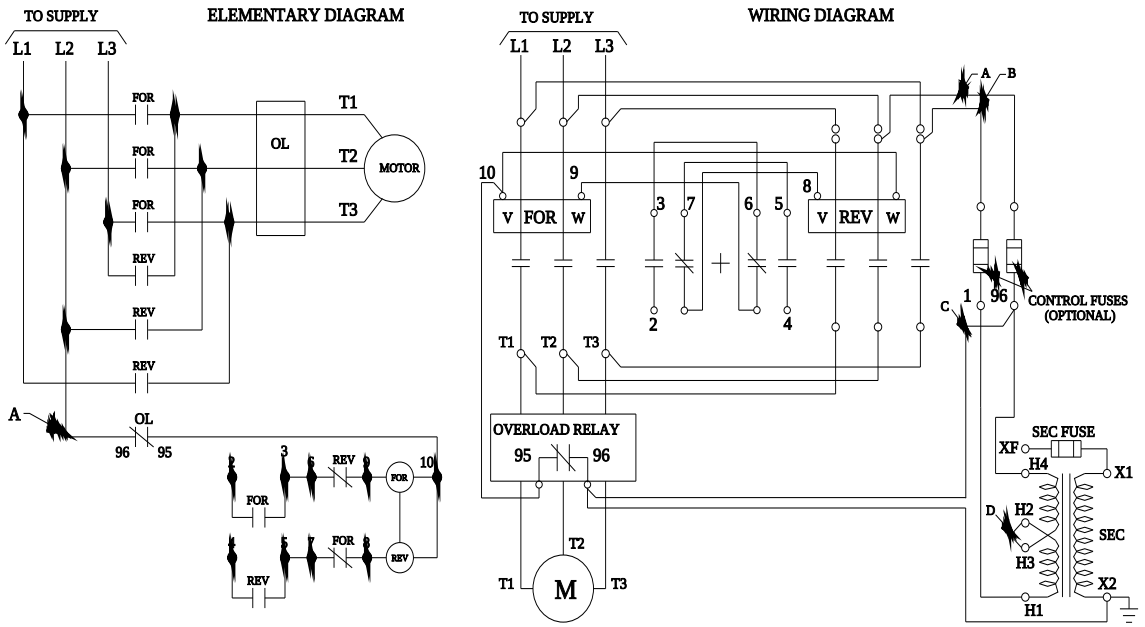
|---|---|
| temperature of the conductor at magnet coil maximum permissible | 75 °C |
| material of the conductor at magnet coil | CU |
| type of electrical connection for auxiliary contacts | Screw-type terminals |
| tightening torque [lbf·in] at contactor for auxiliary contacts | 10 ... 15 lbf·in |
| type of connectable conductor cross-sections at contactor at 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 |
| type of electrical connection at overload relay for auxiliary contacts | Screw-type terminals |
| tightening torque [lbf·in] at overload relay for auxiliary contacts | 7 ... 10 lbf·in |
| type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded | 2x (20 ... 14 AWG) |
| temperature of the conductor at overload relay for auxiliary contacts maximum permissible | 75 °C |
| material of the conductor at overload relay 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 |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 240 V | 14 kA |
| • at 480 V | 10 kA |
| • at 600 V | 10 kA |
| 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=US2:22BUA32AD
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/US/en/ps/US2:22BUA32AD
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22BUA32AD&lang=en
**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/US2:22BUA32AD/certificate

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