

Non-reversing motor starter Size 5 Three phase full voltage Solid-state overload relay OLRelay amp range 55-250A 200-220V 50-60HZ/DC coil Combination type No enclosure



Figure similar

| | |
|--|---|
| Product brand name | Class 14 |
| Design of the product | Full-voltage non-reversing motor starter |
| General technical data | |
| Weight [lb] | 21 lb |
| Height x Width x Depth [in] | 12.92 x 6.5 x 8.94 in |
| Protection against electrical shock | Main circuit (not finger-safe); Control circuit (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 |
| Horsepower ratings | |
| Yielded mechanical performance [hp] for three-phase AC motor | |

| | |
|----------------------------|--------|
| • at 200/208 V rated value | 75 hp |
| • at 220/230 V rated value | 100 hp |
| • at 460/480 V rated value | 200 hp |
| • at 575/600 V rated value | 200 hp |

| Contactor | |
|---|------------------------|
| Size of contactor | NEMA controller size 5 |
| Number of NO contacts for main contacts | 3 |
| Operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| Operating current at AC at 600 V rated value | 270 A |
| Mechanical service life (switching 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 | 10A@240VAC (A300), 2.5A@250VDC (Q300) |

| Coil | |
|--|---------------|
| Type of voltage of the control supply voltage | AC/DC |
| Control supply voltage | |
| • at DC rated value | 200 ... 220 V |
| • at AC at 50 Hz rated value | 200 ... 220 V |
| • at AC at 60 Hz rated value | 200 ... 220 V |
| Holding power at AC minimum | 7.4 W |
| Apparent pick-up power of magnet coil at AC | 590 V·A |
| Apparent holding power of magnet coil at AC | 6.7 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 | 60 % |
| Switch-on delay time | 30 ... 95 ms |
| Off-delay time | 40 ... 80 ms |

| Overload relay | |
|---------------------------|-----|
| Product function | |
| • Overload protection | Yes |
| • Phase failure detection | Yes |
| • Phase unbalance | Yes |
| • Ground fault detection | No |
| • Test function | Yes |

| | |
|--|------------------------------------|
| • External RESET | No |
| Reset function | Manual and automatic |
| Trip class | Class 20 |
| Adjustable pick-up value current of the current-dependent overload release | 55 ... 250 A |
| Product feature Protective coating on printed-circuit board | No |
| Number of NC contacts of auxiliary contacts of overload relay | 1 |
| Number of NO contacts of auxiliary contacts of overload relay | 1 |
| Operating 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 | |
| • with single-phase operation at AC rated value | 600 V |
| • with multi-phase operation at AC rated value | 300 V |

Enclosure

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|---|----------------------------|
| Degree of protection NEMA rating of the enclosure | Open device (no enclosure) |
| Design of the housing | NA |

Mounting/wiring

| | |
|---|--|
| Mounting position | Vertical |
| Mounting type | Surface mounting and installation |
| Type of electrical connection for supply voltage line-side | Box lug |
| Tightening torque [lbf·in] for supply | 180 ... 195 lbf·in |
| Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded | 3/0 AWG - 600 MCM (front only) or 250 - 500 MCM (back only) or 2 x 2/0 AWG - 2 x 500 MCM (both front & back) |
| Temperature of the conductor for supply maximum permissible | 75 °C |
| Type of electrical connection for load-side outgoing feeder | Box lug |
| Tightening torque [lbf·in] for load-side outgoing feeder | 180 ... 220 lbf·in |
| Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded | 2 x 2/0 AWG - 500 MCM |
| 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 | 7 ... 10 lbf·in |
| Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded | 2 x (18 - 14 AWG) |
| 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 | 7 ... 10 lbf·in |
| Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded | 2x (20 - 16), 2x (18 - 14) |
| 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 conductors for auxiliary contacts single or multi-stranded | 2 x (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 | 14kA@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 kA |
| • at 480 V | 14 kA |
| • at 600 V | 14 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

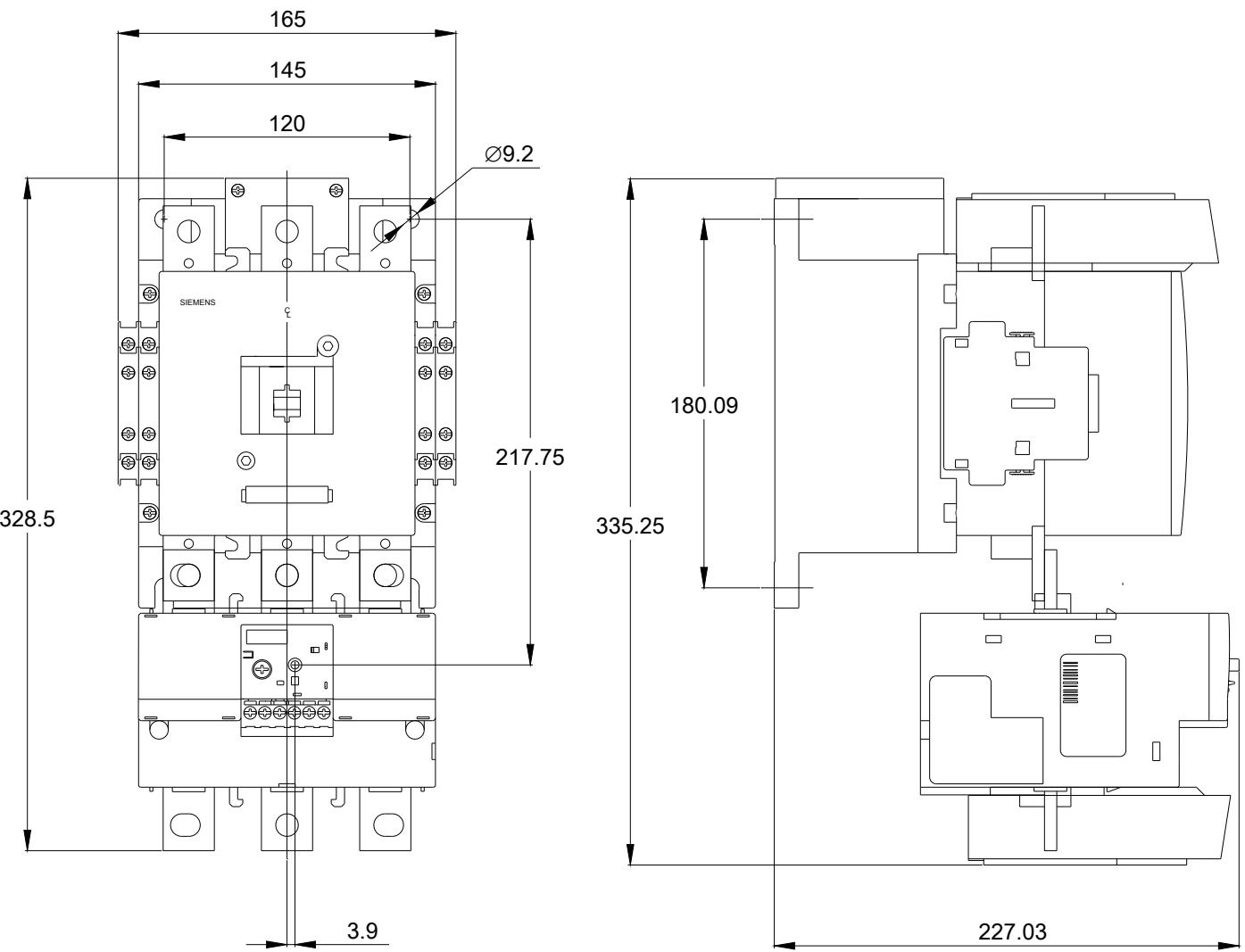
Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14LPU32AD>

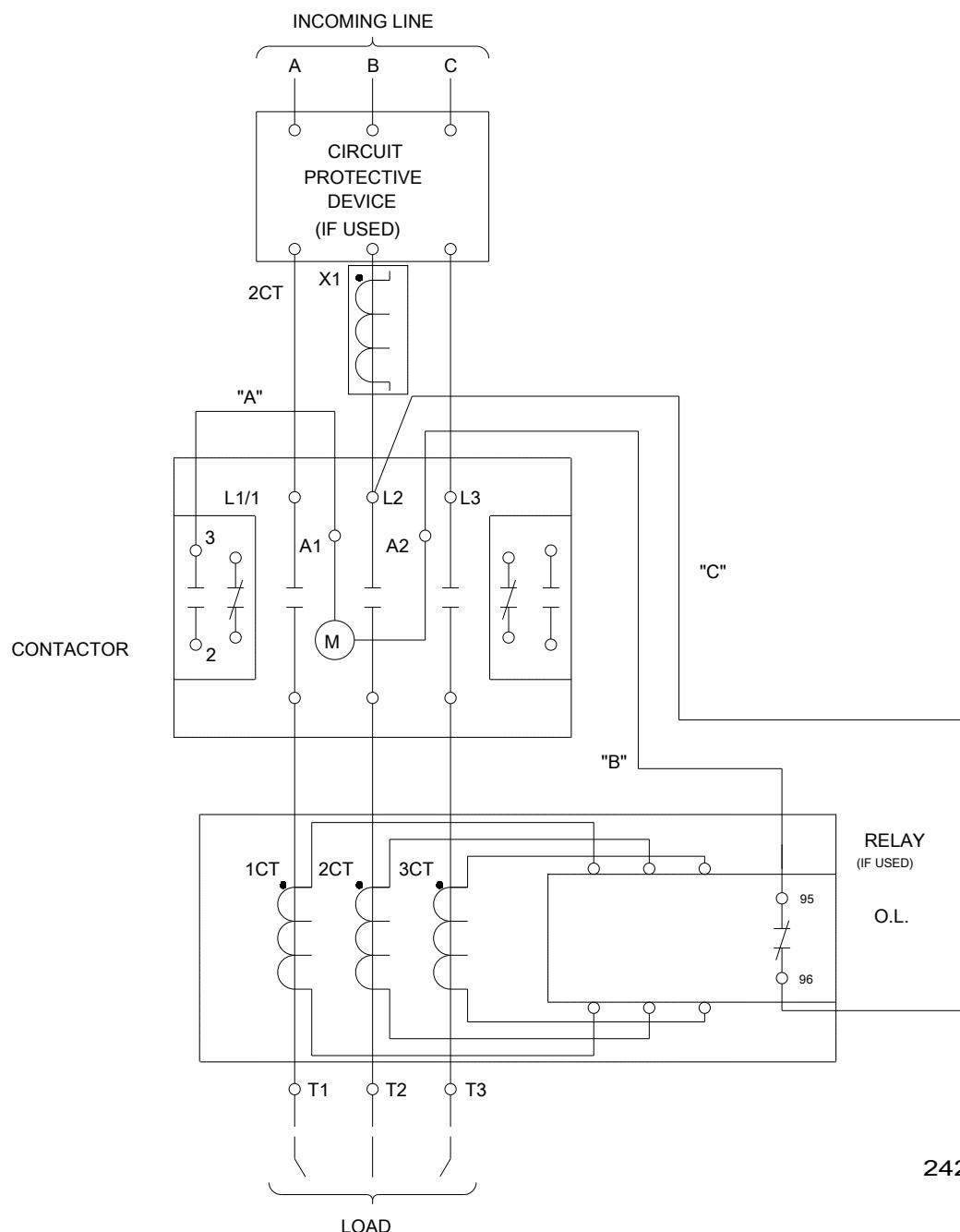
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
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Certificates/approvals

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