



Figure similar

Non-reversing motor starter, Size 6, Three phase full voltage, Solid-state overload relay, OLR amp range 160-630A, 575-600V 50-60Hz/DC coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Standard width enclosure

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| product brand name | Class 14 |
| design of the product | Full-voltage non-reversing motor starter |
| General technical data | |
| weight [lb] | 145 lb |
| Height x Width x Depth [in] | 48 × 20 × 13 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 | |
| • at 200/208 V rated value | 150 hp |
| • at 220/230 V rated value | 200 hp |
| • at 460/480 V rated value | 400 hp |
| • at 575/600 V rated value | 400 hp |
| Contactor | |
| size of contactor | NEMA controller size 6 |
| 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 | 540 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 | 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 | 575 ... 600 V |
| • at AC at 50 Hz rated value | 575 ... 600 V |
| • at AC at 60 Hz rated value | 575 ... 600 V |
| holding power at AC minimum | 10 W |

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| apparent pick-up power of magnet coil at AC | 830 VA |
| apparent holding power of magnet coil at AC | 9.2 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 | 60 % |
| ON-delay time | 45 ... 100 ms |
| OFF-delay time | 60 ... 100 ms |

Overload relay

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| product function | |
| <ul style="list-style-type: none"> ● overload protection ● phase failure detection ● asymmetry detection ● ground fault detection ● test function ● external reset | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> |
| reset function | Manual and automatic |
| trip class | CLASS 20 |
| adjustable current response value current of the current-dependent overload release | 160 ... 630 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 |
| operational current of auxiliary contacts of overload relay | |
| <ul style="list-style-type: none"> ● at AC at 600 V ● at DC at 250 V | <p>5 A</p> <p>1 A</p> |
| contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| insulation voltage (Ui) | |
| <ul style="list-style-type: none"> ● with single-phase operation at AC rated value ● with multi-phase operation at AC rated value | <p>600 V</p> <p>300 V</p> |

Enclosure

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|----------------------------------|---------------------------------------|
| degree of protection NEMA rating | 12 |
| design of the housing | Dust tight and drip proof for indoors |

Mounting/wiring

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| 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 | 180 ... 195 lbf-in |
| type of connectable conductor cross-sections at line-side at AWG cables 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 cables 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 cables 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 cables 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 | screw-type terminals |

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| contacts | |
| 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 | 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

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|---|---|
| design of the fuse link for short-circuit protection of the main circuit required | 18kA@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 | 18 kA |
| • at 480 V | 18 kA |
| • at 600 V | 18 kA |
| certificate of suitability | NEMA ICS 2; UL 508 |

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=US2:14MPX320E>

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

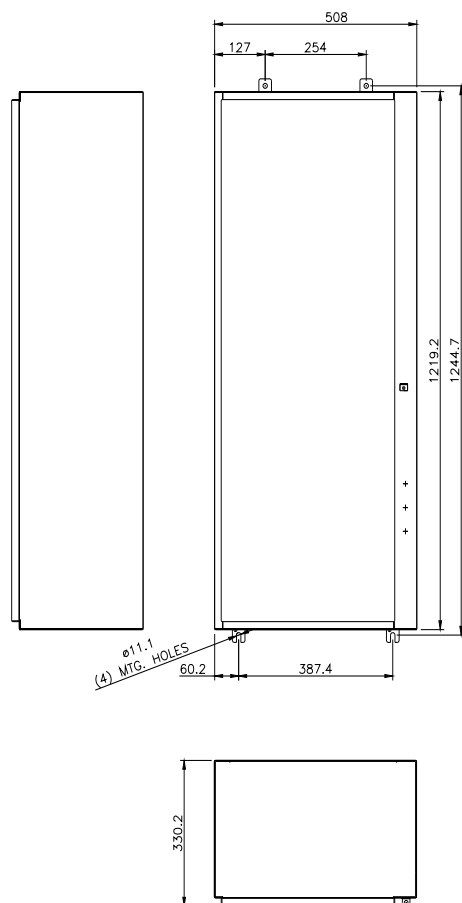
<https://support.industry.siemens.com/cs/US/en/ps/US2:14MPX320E>

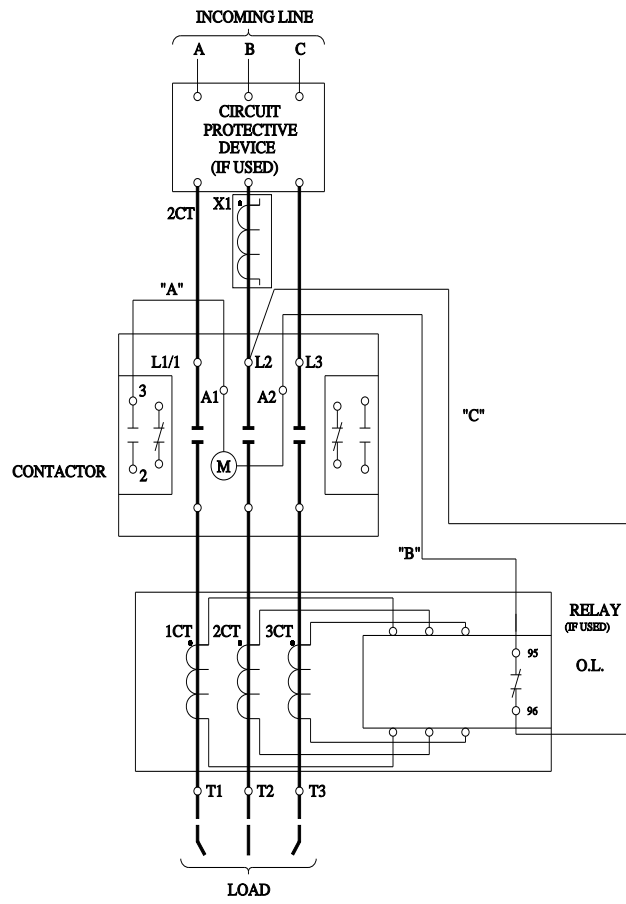
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14MPX320E&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:14MPX320E/certificate>





last modified:

11/29/2021 