



Figure similar

Non-reversing motor starter, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 110-127V 50-60Hz/DC coil, Non-combination type, Enclosure type 7/9/3/4, Hazardous locations, Standard width enclosure

|   |  |
|---|--|
| product brand name  | Class 14                                 |
| design of the product   | Full-voltage non-reversing motor starter |
| <b>General technical data</b>   |  |
| weight [lb]   | 340 lb                                   |
| Height x Width x Depth [in]   | 48.88 × 22.88 × 14.88 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                                      |
| <b>Horsepower ratings</b>   |  |
| yielded mechanical performance [hp] for 3-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                                   |
| <b>Contactors</b>   |  |
| 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                                    |
| operational current at AC at 600 V rated value                          | 270 A                                    |
| mechanical service life (operating cycles) of the main contacts typical | 10000000                                 |
| <b>Auxiliary contact</b>  |  |
| 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)    |
| <b>Coil</b>   |  |
| type of voltage of the control supply voltage                           | AC/DC                                    |
| control supply voltage  |  |
| • at DC rated value   | 110 ... 127 V                            |
| • at AC at 50 Hz rated value  | 110 ... 127 V                            |
| • at AC at 60 Hz rated value  | 110 ... 127 V                            |
| holding power at AC minimum   | 7.4 W                                    |

|  |              |
|--|--------------|
| apparent pick-up power of magnet coil at AC                              | 590 VA       |
| apparent holding power of magnet coil at AC                              | 6.7 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  | 30 ... 95 ms |
| OFF-delay time   | 40 ... 80 ms |

#### Overload relay

|  |   |
|--|---|
| product function   |   |
| <ul style="list-style-type: none"> <li>• overload protection</li> <li>• phase failure detection</li> <li>• asymmetry detection</li> <li>• ground fault detection</li> <li>• test function</li> <li>• external reset</li> </ul> | <ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>Yes</li> </ul> |
| reset function   | Manual and automatic  |
| trip class   | CLASS 20  |
| adjustable current response 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   |
| operational current of auxiliary contacts of overload relay  |   |
| <ul style="list-style-type: none"> <li>• at AC at 600 V</li> <li>• at DC at 250 V</li> </ul>   | <ul style="list-style-type: none"> <li>5 A</li> <li>1 A</li> </ul>  |
| 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"> <li>• with single-phase operation at AC rated value</li> <li>• with multi-phase operation at AC rated value</li> </ul>  | <ul style="list-style-type: none"> <li>600 V</li> <li>300 V</li> </ul>  |

#### Enclosure

|                                  |  |
|----------------------------------|--|
| degree of protection NEMA rating | 3, 4, 7, 9   |
| design of the housing            | Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III |

#### 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   | 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 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 | 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 | none               |
| design of the short-circuit trip  | none               |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                |                    |
| • at 240 V  | 0 kA               |
| • at 480 V  | 0 kA               |
| • at 600 V  | 0 kA               |
| certificate of suitability  | NEMA ICS 2; UL 508 |

### Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

[www.usa.siemens.com/ccatalog](http://www.usa.siemens.com/ccatalog)

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14LPU32HF>

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

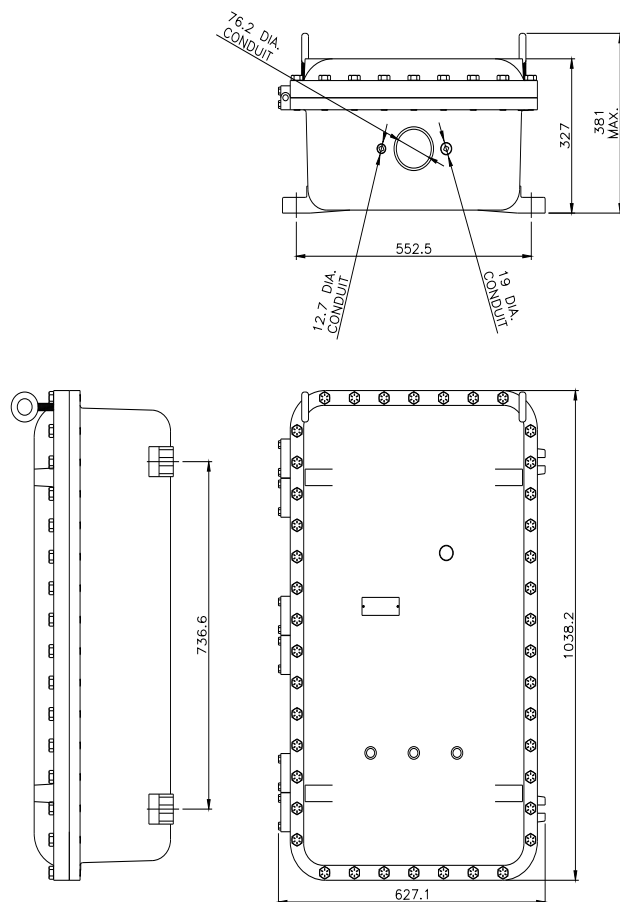
<https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32HF>

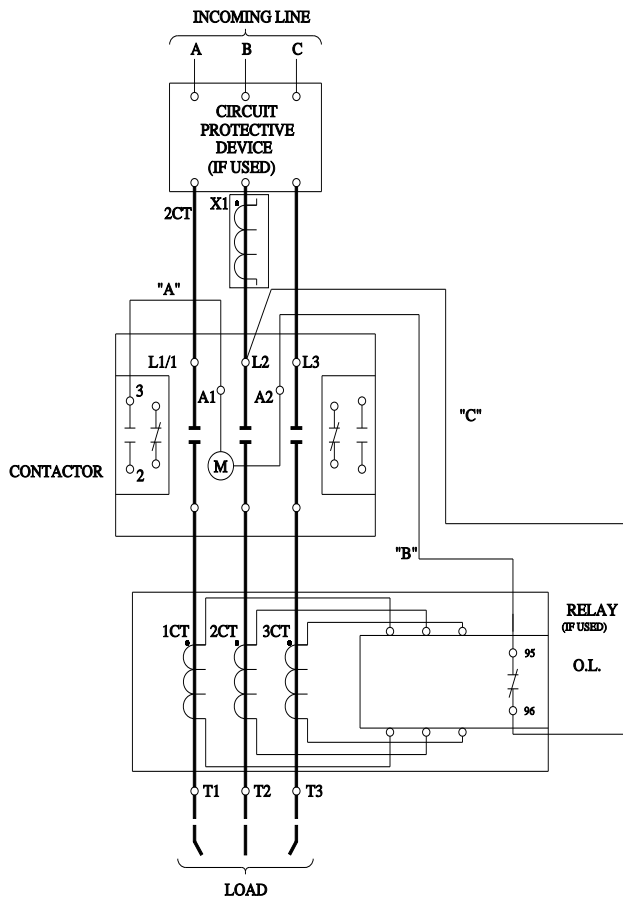
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14LPU32HF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14LPU32HF&lang=en)

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32HF/certificate>





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