



Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 0.75-3.4A 110VAC 50HZ / 120VAC 60HZ coil Combination type No enclosure

|   |  |
|---|--|
| product brand name  | Class 14                                 |
| design of the product   | Full-voltage non-reversing motor starter |
| special product feature   | ESP200 overload relay                    |
| <b>General technical data</b>   |  |
| weight [lb]   | 3 lb                                     |
| Height x Width x Depth [in]   | 7.44 × 5.75 × 3.75 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                                   |
| <b>Horsepower ratings</b>   |  |
| yielded mechanical performance [hp] for 3-phase AC motor                |  |
| • at 200/208 V rated value  | 0.5 hp                                   |
| • at 220/230 V rated value  | 0.75 hp                                  |
| • at 460/480 V rated value  | 1.5 hp                                   |
| • at 575/600 V rated value  | 2 hp                                     |
| <b>Contactor</b>  |  |
| size of contactor   | NEMA controller size 1                   |
| 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                          | 27 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               | 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)      |
| <b>Coil</b>   |  |
| type of voltage of the control supply voltage                           | AC                                       |
| control supply voltage  |  |
| • at AC at 50 Hz rated value  | 110 V                                    |
| • at AC at 60 Hz rated value  | 120 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                                       |
| percentual drop-out voltage of magnet coil related to the input voltage  | 50 %   |
| ON-delay time  | 19 ... 29 ms                                       |
| OFF-delay time   | 10 ... 24 ms                                       |
| <b>Overload relay</b>  |  |
| 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                                      | 0.75 ... 3.4 A                                     |
| tripping time at phase-loss 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  |
| <b>Enclosure</b>   |  |
| degree of protection NEMA rating of the enclosure  | Open device (no enclosure)                         |
| design of the housing  | NA   |
| <b>Mounting/wiring</b>   |  |
| 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  | 35 ... 35 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 terminals                               |
| tightening torque [lbf-in] for load-side outgoing feeder   | 20 ... 24 lbf-in                                   |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       | 2 x (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 for AWG cables single or multi-stranded                      | 2 x (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 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 | 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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 for 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 | 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 (I <sub>cu</sub> )                |   |
| • 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](http://www.usa.siemens.com/iccatalog)

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14DUB32AF>

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

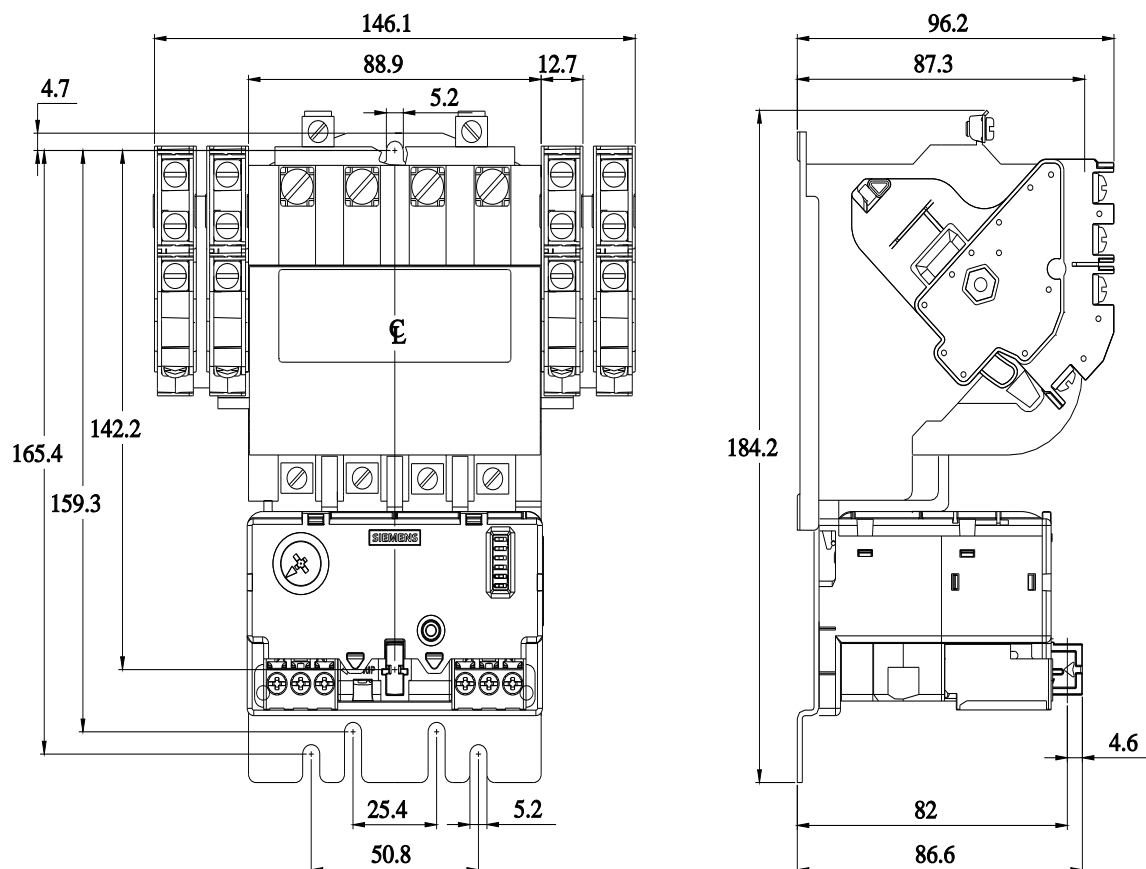
<https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB32AF>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14DUB32AF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUB32AF&lang=en)

Certificates/approvals

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