



Non-reversing motor starter, Size 1, Single phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

|                                                                         |                                          |
|-------------------------------------------------------------------------|------------------------------------------|
| product brand name                                                      | Class 14                                 |
| design of the product                                                   | Full-voltage non-reversing motor starter |
| special product feature                                                 | ESP200 overload relay; Dual voltage coil |
| <b>General technical data</b>                                           |                                          |
| weight [lb]                                                             | 14 lb                                    |
| Height x Width x Depth [in]                                             | 15 × 12 × 7 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 single-phase AC motor           |                                          |
| • at 115 V rated value                                                  | 1 hp                                     |
| • at 200/208 V rated value                                              | 2 hp                                     |
| • at 220/230 V rated value                                              | 2 hp                                     |
| <b>Contactor</b>                                                        |                                          |
| size of contactor                                                       | NEMA controller size 1                   |
| number of NO contacts for main contacts                                 | 2                                        |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 240 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       | 345VA@115VAC / 768VA@240VAC              |
| <b>Coil</b>                                                             |                                          |
| type of voltage of the control supply voltage                           | AC                                       |
| control supply voltage                                                  |                                          |
| • at AC at 60 Hz rated value                                            | 220 ... 480 V                            |
| holding power at AC minimum                                             | 9 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                                                                                                         | Yes                                                |
| 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                                      | 5.5 ... 22 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                                                                        | NEMA 4X fiberglass enclosure                       |
| design of the housing                                                                                                    | Dust-tight, watertight & corrosion resistant       |
| <b>Mounting/wiring</b>                                                                                                   |                                                    |
| mounting position                                                                                                        | vertical                                           |
| fastening method                                                                                                         | Surface mounting and installation                  |
| type of electrical connection for supply voltage line-side                                                               | screw terminal                                     |
| tightening torque [lbf-in] for supply                                                                                    | 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 terminal                                     |
| tightening torque [lbf-in] for load-side outgoing feeder                                                                 | 35 lbf-in                                          |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       | 1x(14 - 2 AWG)                                     |
| temperature of the conductor for load-side outgoing feeder maximum permissible                                           | 75 °C                                              |
| material of the conductor for load-side outgoing feeder                                                                  | Al or Cu                                           |
| type of electrical connection of magnet coil                                                                             | screw terminal                                     |
| 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 terminal                                     |
| 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 terminal                                      |
| 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                                                  |
| <b>Short-circuit current rating</b>                                                                                           |                                                     |
| 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                                                                                              | thermo magnetisch                                   |
| maximum short-circuit current breaking capacity (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                 |
| <b>Approvals Certificates</b>                                                                                                 |                                                     |
| <b>Test Certificates</b>                                                                                                      |                                                     |



#### 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=US2:14DUD12FC>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD12FC>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14DUD12FC&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUD12FC&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD12FC/certificate>



