

Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 24VDC coil, Combination type, 60A fusible disconnect, 60A/600V fuse clip, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

|                                                                          |                                                     |
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| product brand name                                                       | Class 17                                            |
| design of the product                                                    | Non-reversing motor starter with fusible disconnect |
| special product feature                                                  | ESP200 overload relay                               |
| <b>General technical data</b>                                            |                                                     |
| weight [lb]                                                              | 48 lb                                               |
| Height x Width x Depth [in]                                              | 24 × 20 × 8 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                                               | 0 hp                                                |
| • at 220/230 V rated value                                               | 0 hp                                                |
| • at 460/480 V rated value                                               | 25 hp                                               |
| • at 575/600 V rated value                                               | 25 hp                                               |
| <b>Contactors</b>                                                        |                                                     |
| size of contactor                                                        | NEMA controller size 2                              |
| 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                           | 45 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                               | 7                                                   |
| 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                            | DC                                                  |
| control supply voltage                                                   |                                                     |
| • at DC rated value                                                      | 24 V                                                |
| holding power at AC minimum                                              | 0 W                                                 |
| apparent pick-up power of magnet coil at AC                              | 163 VA                                              |
| apparent holding power of magnet coil at AC                              | 5.5 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  | 25 %                                                |
| ON-delay time                                                            | 21 ... 21 ms                                        |
| OFF-delay time                                                           | 11 ... 11 ms                                        |
| <b>Overload relay</b>                                                    |                                                     |
| product function                                                         |                                                     |
| • overload protection                                                    | Yes                                                 |

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| <ul style="list-style-type: none"> <li>• phase failure detection</li> <li>• asymmetry detection</li> <li>• ground fault detection</li> <li>• test function</li> <li>• external reset</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>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                                                                                                             | 13 ... 52 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 <ul style="list-style-type: none"> <li>• at AC at 600 V</li> <li>• at DC at 250 V</li> </ul>                                        | 5 A<br>1 A                                          |
| 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>               | 600 V<br>300 V                                      |
| <b>Disconnect Switch</b>                                                                                                                                                                        |                                                     |
| response value of switch disconnecter                                                                                                                                                           | 60A / 600V                                          |
| design of fuse holder                                                                                                                                                                           | Class R fuse clips                                  |
| operating class of the fuse link                                                                                                                                                                | Class R                                             |
| <b>Enclosure</b>                                                                                                                                                                                |                                                     |
| degree of protection NEMA rating                                                                                                                                                                | 4, 12                                               |
| design of the housing                                                                                                                                                                           | dustproof, waterproof & weatherproof                |
| <b>Mounting/wiring</b>                                                                                                                                                                          |                                                     |
| 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                                                                                                                                                           | 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                                                                                                                                     | Box lug                                             |
| tightening torque [lbf-in] for load-side outgoing feeder                                                                                                                                        | 45 ... 45 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-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                                                                                             | 2x (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                                                                        | 1x (12 AWG), 2x (16 ... 14 AWG), 2x (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                                                                   | 2x (20 ... 14 AWG)                                  |

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| 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) |
| 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=US2:17FUF82NS13>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:17FUF82NS13>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:17FUF82NS13&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17FUF82NS13&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:17FUF82NS13/certificate>

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