



Reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

|   |                                      |
|---|--------------------------------------|
| product brand name  | Class 22                             |
| design of the product   | Full-voltage reversing motor starter |
| special product feature   | ESP200 overload relay                |
| <b>General technical data</b>   |                                      |
| weight [lb]   | 17 lb                                |
| Height x Width x Depth [in]   | 24 × 15 × 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 3-phase AC motor                |                                      |
| • at 200/208 V rated value  | 0.17 hp                              |
| • at 220/230 V rated value  | 0.17 hp                              |
| • at 460/480 V rated value  | 0.33 hp                              |
| • at 575/600 V rated value  | 0.5 hp                               |
| <b>Contactors</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       | 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   | 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 |

### Overload relay

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|--|--|
| 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>Yes</li> <li>Yes</li> <li>Yes</li> </ul> |
| 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  | 0.25 ... 1 A   |
| make time with automatic start after power failure 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>   | <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

|                       |  |
|-----------------------|--|
| design of the housing | dustproof, waterproof & resistant to corrosion |
|-----------------------|--|

### Mounting/wiring

|  |   |
|--|---|
| 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 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       | 2x (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                      | 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)                                  |
| 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  | Thermal magnetic circuit breaker                    |
| 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?mifb=US2:22DUA32FC>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:22DUA32FC>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mifb=US2:22DUA32FC&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=US2:22DUA32FC&lang=en)

**Certificates/approvals**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:22DUA32FC/certificate>



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