



Figure similar

Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 24VAC 50-60Hz coil, Combination type, Two 3A circuit breakers, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

|   |  |
|---|--|
| product brand name  | Class 84   |
| design of the product   | Duplex controller with two MCPs without alternator |
| special product feature   | ESP200 overload relay                              |
| <b>General technical data</b>   |  |
| weight [lb]   | 70 lb  |
| Height x Width x Depth [in]   | 34 × 25 × 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  | 0.17 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 0                             |
| 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                          | 18 A   |
| mechanical service life (switching 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  |  |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• at DC rated value</li> </ul>   | 0 ... 0 V  |
| <ul style="list-style-type: none"> <li>• at AC at 50 Hz rated value</li> </ul>                                    | 24 ... 24 V                                      |
| <ul style="list-style-type: none"> <li>• at AC at 60 Hz rated value</li> </ul>                                    | 24 ... 24 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                                     |
| percental 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  |  |
| <ul style="list-style-type: none"> <li>• overload protection</li> </ul>   | Yes  |
| <ul style="list-style-type: none"> <li>• phase failure detection</li> </ul>                                       | Yes  |
| <ul style="list-style-type: none"> <li>• asymmetry detection</li> </ul>   | Yes  |
| <ul style="list-style-type: none"> <li>• ground fault detection</li> </ul>  | Yes  |
| <ul style="list-style-type: none"> <li>• test function</li> </ul>   | Yes  |
| <ul style="list-style-type: none"> <li>• external reset</li> </ul>  | 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                               | 0.25 ... 1 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> </ul>  | 5 A  |
| <ul style="list-style-type: none"> <li>• at DC at 250 V</li> </ul>  | 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> </ul>                 | 600 V  |
| <ul style="list-style-type: none"> <li>• with multi-phase operation at AC rated value</li> </ul>                  | 300 V  |
| <b>Enclosure</b>  |  |
| degree of protection NEMA rating of the enclosure   | NEMA 4x 304 stainless steel enclosure            |
| design of the housing   | dustproof, waterproof & resistant to corrosion   |
| <b>Circuit Breaker</b>  |  |
| type of the motor protection  | Motor circuit protector (magnetic trip only)     |
| operational current of motor circuit breaker rated value  | 3 A  |
| adjustable current response value current of instantaneous short-circuit trip unit                                | 10 ... 35 A                                      |
| <b>Mounting/wiring</b>  |  |
| mounting position   | Vertical   |
| fastening method  | Surface mounting and installation                |
| type of electrical connection for supply voltage line-side  | Box lug  |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded                  | 1x (14 AWG ... 10 AWG) or 1x (12 AWG ... 10 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 at AWG cables for load-side outgoing feeder single or multi-stranded | 2x (14 ... 10 AWG)                               |
| temperature of the conductor for load-side outgoing feeder  | 75 °C  |

|  |   |
|--|---|
| maximum permissible  |   |
| 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 at 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 at contactor 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 at 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 at 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  |

#### Short-circuit current rating

|  |                                     |
|--|-------------------------------------|
| design of the short-circuit trip                                   | Instantaneous trip circuit breaker  |
| breaking capacity maximum short-circuit current (I <sub>cu</sub> ) |                                     |
| • at 240 V   | 100 kA                              |
| • at 480 V   | 100 kA                              |
| • at 600 V   | 25 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=US2:84CUA95WMJ>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95WMJ>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:84CUA95WMJ&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84CUA95WMJ&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95WMJ/certificate>

last modified:

1/25/2022 