



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 240V 50Hz / 277V 60Hz coil, Non-combination type, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

|                                                                         |                                      |
|-------------------------------------------------------------------------|--------------------------------------|
| product brand name                                                      | Class 83                             |
| design of the product                                                   | Duplex controller without alternator |
| special product feature                                                 | ESP200 overload relay                |
| <b>General technical data</b>                                           |                                      |
| weight [lb]                                                             | 40 lb(av)                            |
| Height x Width x Depth [in]                                             | 20 × 16 × 6 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 (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 DC rated value                                                     | 0 ... 0 V                            |
| • at AC at 50 Hz rated value                                            | 240 ... 240 V                        |

|                                                                                                                    |                                                |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| • at AC at 60 Hz rated value                                                                                       | 277 ... 277 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                                                                                                   |                                                |
| • 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                   |
| 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                                                        |                                                |
| • 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 304 stainless steel enclosure          |
| design of the housing                                                                                              | dustproof, waterproof & resistant to corrosion |
| <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                                                                              | 20 ... 20 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 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 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                                                  |

#### 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> ) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 14 kA<br>10 kA<br>10 kA                             |
| certificate of suitability                                                                                                                                              | NEMA ICS 2; UL 508; CSA 22.2, No.14                 |

#### Approvals Certificates

##### Test Certificates



#### 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=US2:83CUA95WL>

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

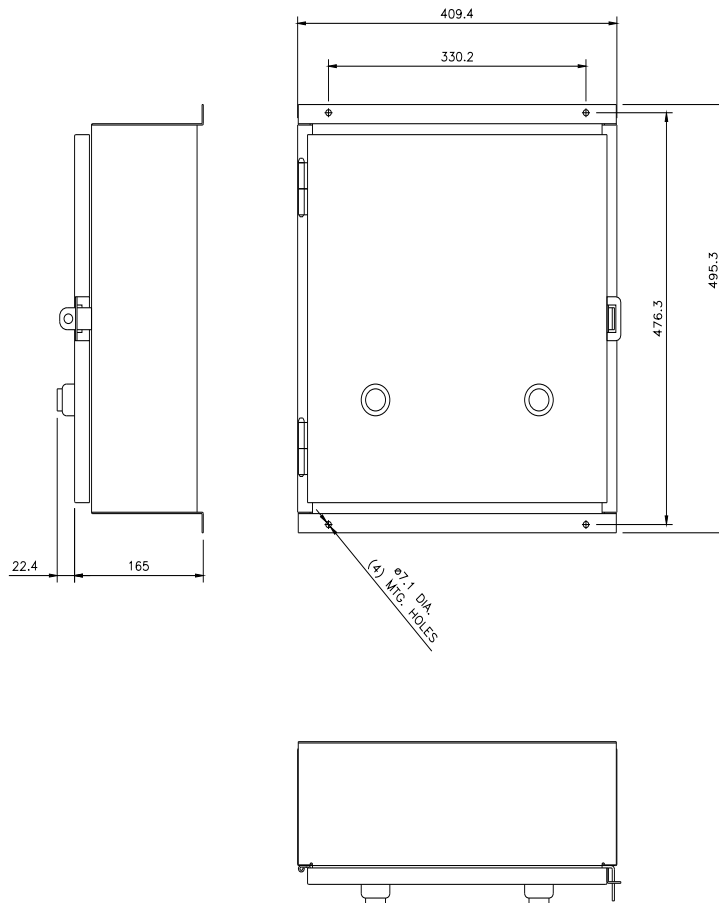
<https://support.industry.siemens.com/cs/US/en/ps/US2:83CUA95WL>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:83CUA95WL&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83CUA95WL&lang=en)

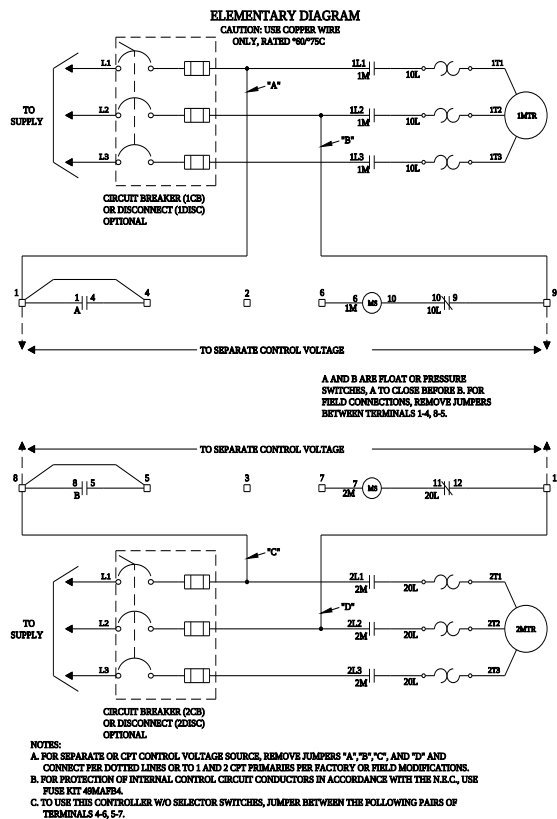
Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:83CUA95WL/certificate>



## SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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