## **SIEMENS**

Data sheet US2:84DUA95BDL



Duplex starter w/o alternator Size 1 Three phase full voltage Solid-state overload relay OLR amp range 0.25-1A 240VAC 50Hz / 277VAC 60Hz Coil Combination type Two 30A disconnect switches Enclosure NEMA type 1 Indoor general purpose use

Figure similar

| product brand name  | Class 84  |
|---|---|
| design of the product   | Duplex controller with two non-fusible disconnect switches without alternator |
| special product feature   | ESP200 overload relay   |
| General technical data  |   |
| 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   |
| Horsepower ratings  |   |
| yielded mechanical performance [hp] for 3-phase AC motor                |   |
| • at 200/208 V rated value  | 0.17 hp   |
| <ul><li>at 220/230 V rated value</li></ul>                              | 0.17 hp   |
| <ul><li>at 460/480 V rated value</li></ul>                              | 0.33 hp   |
| <ul><li>at 575/600 V rated value</li></ul>                              | 0.5 hp  |
| Contactor   |   |
| 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 (switching cycles) of the main contacts typical | 10000000  |
| Auxiliary contact   |   |
| 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)   |
| Coil  |   |
| type of voltage of the control supply voltage                           | AC  |

| control supply voltage  |                                      |
|---|--------------------------------------|
| at DC rated value   | 0 0 V                                |
| <ul> <li>at AC at 50 Hz rated value</li> </ul>  | 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                             |
| Overload relay  |                                      |
| product function  |                                      |
| <ul> <li>overload protection</li> </ul>   | Yes                                  |
| <ul> <li>phase failure detection</li> </ul>   | Yes                                  |
| <ul> <li>asymmetry detection</li> </ul>   | Yes                                  |
| <ul> <li>ground fault detection</li> </ul>  | Yes                                  |
| <ul><li>test function</li></ul>   | 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-<br>dependent overload release                           | 0.25 1 A                             |
| tripping time at phase-loss maximum   | 3 s                                  |
| relative repeat accuracy  | 1 %                                  |
| 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)   |                                      |
| <ul> <li>with single-phase operation at AC rated value</li> </ul>   | 600 V                                |
| <ul> <li>with multi-phase operation at AC rated value</li> </ul>  | 300 V                                |
| Disconnect Switch   |                                      |
| response value of switch disconnector   | 30A / 600V                           |
| design of fuse holder   | non-fusible                          |
| operating class of the fuse link  | non-fusible                          |
| Enclosure   |                                      |
| degree of protection NEMA rating of the enclosure   | NEMA Type 1                          |
| design of the housing   | indoors, usable on a general basis   |
| Mounting/wiring   |                                      |
| 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 at 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 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                                |
| toporatare or the contactor for load-side outgoing feeder   |                                      |

| 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-<br>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 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  |  |
| tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multistranded  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts  Short-circuit current rating  design of the fuse link for short-circuit protection of the main circuit required  certificate of suitability | 2x (20 14 AWG)  75 °C  CU  10kA@600V (Class H or K); 100kA@600V (Class R or J) |

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUA95BDL">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUA95BDL</a>

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUA95BDL

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUA95BDL&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUA95BDL/certificate

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