## **SIEMENS**

Data sheet US2:84DUB95EDG



Duplex starter w/o alternator Size 1 Three phase full voltage Solid-state overload relay OLR amp range 0.75-3.4A Combination type Two 30A disconnect switches Encl NEMA type 4 painted steel Water/dust tight weather proof

Figure similar

| design of the product  special product feature  General technical data  weight [lb]  Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [*Ft]  during storage during operation  ambient temperature  outring storage during operation  country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value  at 460/480 V rated value be at 575/600 V rated value  at 600 the foliation of the first products at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts and to the first product of the first product and the first products at contactor for auxiliary contacts number of total auxiliary contacts and the first products at contact and to the first product and the first products and the first product and the first product and the first product and the first product and the first products and the first product and the first products and the first products and the first product and the first products and the fi | product brand name   | Class 84                            |
|--|--|-------------------------------------|
| Weight [lb] 70 lb Height x Width x Depth [in] 34 × 25 × 8 in touch protection against electrical shock Installation altitude [if] at height above sea level maximum 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 0.5 hp • at 420/230 V rated value 0.75 hp • at 460/480 V rated value 1.5 hp • at 575/600 V rated value 2 hp  Contactor  size of contactor Nemain contacts operating voltage for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 2.7 A mechanical service life (switching cycles) of the main contacts typical number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor f                 | design of the product  |                                     |
| weight [lb] 70 lb Height x Width x Depth [in] 34 × 25 × 8 in touch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [FF] • 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 -3 to 5 hp • at 460/480 V rated value -1.5 hp • at 575/600 V rated value -2 hp  Contactor  size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value -2 Auxiliary contacts number of NO contacts at contactor for auxiliary contacts   | special product feature                                      | ESP200 overload relay               |
| Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  ambient temperature  • during storage • during operation  ambient temperature  • during operation  ambient temperature  • during operation  ambient temperature  • during operation  country of origin  USA  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  isize of contactor  number of NO contacts for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  nechanical service life (switching cycles) of the main contacts typical  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1   | General technical data                                       |                                     |
| touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [*F]  • during storage • during operation ambient temperature • during storage • during storage • during storage • during storage • during operation -20 +104 *F  ambient temperature  • during storage • during operation -20 +65 *C -20 +40 *C  country of origin  USA  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value  2 hp  Contactor  size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts  | weight [lb]  | 70 lb                               |
| installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation -4 +104 °F  ambient temperature • during storage • during operation -20 +65 °C -20 +40 °C  country of origin  Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 575/600 V rated value • at 575/600 V rated value  Contactor  size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value  and the first operation of the main contacts of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts  | Height x Width x Depth [in]                                  | 34 × 25 × 8 in                      |
| ambient temperature [°F]  • during storage • during operation  ambient temperature  • during storage • during operation  • during storage • during operation  • during operation  country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  contactor  size of contactor  size of contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  poperational current at AC at 600 V rated value  roperational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1   | touch protection against electrical shock                    | NA for enclosed products            |
| • during storage     • during operation     ambient temperature     • during storage     • during storage     • during operation     country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor      • at 200/208 V rated value     • at 220/230 V rated value     • at 460/480 V rated value     • at 575/600 V rated value     • at 575/600 V rated value     2 hp  Contactor  size of contactor  number of NO contacts for main contacts     operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts  | installation altitude [ft] at height above sea level maximum | 6560 ft                             |
| • during operation     ambient temperature     • during storage     • during operation     -20 +65 °C     • during operation     country of origin      USA  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor      • at 200/208 V rated value     • at 220/230 V rated value     • at 460/480 V rated value     • at 575/600 V rated value     • at 575/600 V rated value     2 hp  Contactor  size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value  Auxilliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1   | ambient temperature [°F]                                     |                                     |
| ambient temperature  • during storage  • during operation  country of origin  USA  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  2 hp  Contactor  size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  27 A  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  1  | <ul> <li>during storage</li> </ul>                           | -22 +149 °F                         |
| <ul> <li>during storage</li> <li>during operation</li> <li>country of origin</li> <li>USA</li> </ul> Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>by at 575/600 V rated value</li> <li>contactor</li> </ul> Size of contactor <ul> <li>number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operational current at AC at 600 V rated value</li> <li>are an an</li></ul>  | during operation   | -4 +104 °F                          |
| during operation     country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor      at 200/208 V rated value     at 220/230 V rated value     at 460/480 V rated value     at 575/600 V rated value     inumber of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  Auxilliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1   | ambient temperature  |                                     |
| country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 2 hp  Contactor  size of contactor NEMA controller size 1 number of NO contacts for main current circuit at AC at 60 Hz maximum  operating voltage for main current circuit at AC at 60 Hz mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  1   | <ul><li>during storage</li></ul>                             | -30 +65 °C                          |
| yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value  size of contactor  size of contactor  number of NO contacts for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  27 A  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1  | during operation   | -20 +40 °C                          |
| yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  2 hp  Contactor  size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  27 A  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  1  | country of origin  | USA                                 |
| motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • 2 hp  Contactor  size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value  27 A  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 1   | Horsepower ratings   |                                     |
| at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value by at 575/600 V rated value contactor  size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 1  |  |                                     |
| <ul> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>2 hp</li> </ul> Contactor <ul> <li>size of contactor</li> <li>number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operational current at AC at 600 V rated value</li> <li>operational service life (switching cycles) of the main contacts typical</li> </ul> Auxiliary contact <ul> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NO contacts at contactor for auxiliary contacts</li> <li>number of NO contacts at contactor for auxiliary contacts</li> </ul>   | <ul><li>at 200/208 V rated value</li></ul>                   | 0.5 hp                              |
| at 575/600 V rated value      Contactor  size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  operational service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1   | <ul><li>at 220/230 V rated value</li></ul>                   | 0.75 hp                             |
| Size of contactor  Size of contactor  NEMA controller size 1  Size of contacts of main contacts 3  Operating voltage for main current circuit at AC at 60 Hz 600 V  Maximum  Operational current at AC at 600 V rated value 27 A  Mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  NEMA controller size 1  Size of contacts of contacts at contactor for auxiliary contacts 0  NEMA controller size 1  Size of contacts | <ul><li>at 460/480 V rated value</li></ul>                   | 1.5 hp                              |
| size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1   | <ul><li>at 575/600 V rated value</li></ul>                   | 2 hp                                |
| number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1  | Contactor  |                                     |
| operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  operational service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1  | size of contactor  | NEMA controller size 1              |
| maximum operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts  1  | number of NO contacts for main contacts                      | 3                                   |
| mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1  |  | 600 V                               |
| contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1   | operational current at AC at 600 V rated value               | 27 A                                |
| number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  1  | ` ,  | 10000000                            |
| number of NO contacts at contactor for auxiliary contacts 1  | Auxiliary contact  |                                     |
|  | number of NC contacts at contactor for auxiliary contacts    | 0                                   |
| number of total auxiliary contacts maximum 8   | 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)  |  | 10A@600VAC (A600), 5A@600VDC (P600) |
| Coil   | Coil   |                                     |
| type of voltage of the control supply voltage AC   | type of voltage of the control supply voltage                | AC                                  |

| 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)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUB95EDG

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

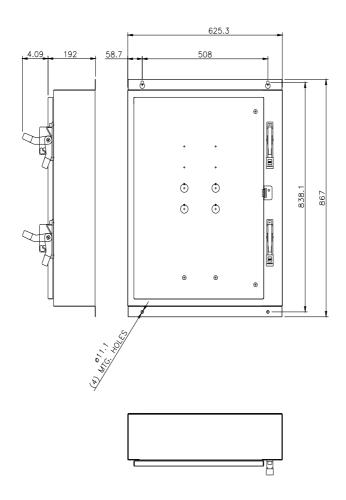
https://support.industry.siemens.com/cs/US/en/ps/US2:84DUB95EDG

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUB95EDG\&lang=en}$ 

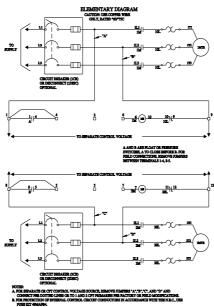
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUB95EDG/certificate



## SCHEMATIC DIAGRAM

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



D68077003

last modified: 1/25/2022 🖸