## **SIEMENS**

Data sheet US2:84DUC950DL



Duplex starter w/o alternator Size 1 Three phase full voltage Solid-state overload relay OLR amp range 3-12A 240VAC 50Hz / 277VAC 60Hz Coil Combination type Two 30A disconnect switches Enclosure NEMA type 4/12 Water/dust tight weather proof

| 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]  |   |
| <ul> <li>during storage</li> </ul>                                      | -22 +149 °F   |
| during operation  | -4 +104 °F  |
| ambient temperature   |   |
| <ul> <li>during storage</li> </ul>                                      | -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  | 2 hp  |
| • at 220/230 V rated value  | 2 hp  |
| <ul> <li>at 460/480 V rated value</li> </ul>                            | 5 hp  |
| • at 575/600 V rated value  | 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 (operating 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 holding power of magnet coil at AC poperating range become holding supply voltage rated value of insignet coil properating range become holding of magnet coil related to the input voltage of magnet coil and included to the input voltage of magnet coil related voltage of magnetic voltage of magnetic voltage of voltage o | apparent pick up power of magnet sell at AO                       | 210 \/A                                 |
|--|---|---|
| Second Company Control Supply voltage rated value of magnet coll related to the input voltage of the collection of   | apparent helding power of magnet coil at AC                       | 218 VA                                  |
| presental drop-out voltage of magnet col related to the input voltage percental drop-out voltage of magnet col related to the input voltage of procession of the procession of |   |   |
| voltage OFF-delay time OFF-delay tim | magnet coil   |   |
| Overload rollsy  Product function  • overload protection  • or overload protection  • asymmetry detection  • costmain reset  • cest function  • costmain reset  * Yes  • costmain reset  * Yes  • costmain reset  * Yes  • costmain reset  * Try class  • CLASS 5 / 10 / 20 (factory set) / 30  • cligitable current response value current of the current- dependent overload release  * tripping time at phase-loss maximum  relefive repeat accuracy  • an IV Contacts of auxiliary contacts of overload relay  • an IV Contacts of auxiliary contacts of overload relay  • at IV Contacts of auxiliary contacts of overload relay  • at IV Contacts of auxiliary contacts of overload relay  • at IV Contacts of auxiliary contacts of overload relay  • at IV Contacts of auxiliary contacts of overload relay  • at IV Contact and iverload release  • with simple-phase operation at AC rated value  • with multi-phase ope |   | 50 %                                    |
| Overload rately product function  Overload protection Overs Overload protection Overs Over | ON-delay time   | 19 29 ms                                |
| product function  • overload protection • phase failure detection • phase failure detection • phase failure detection • product function • cyround failure detection • cyround failure • cyround • cyrou | OFF-delay time  | 10 24 ms                                |
| overload protection     one hase failure detection     one asymmetry detection     one content of the content of the current     one content of the current     content of the current     one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of auxiliary contacts of overload relay     one that one content of overload relay     one that one content of overload relay     one that one content of the content of relay auxiliary contacts of overload relay     one that one content of the content of relay auxiliary contacts of overload relay     one that one content of supply contents of overload relay     one that one content of supply auxiliary contacts of overload relay     one that one content of relay that one content of overload relay auxiliary contacts of overload relay     one that one content of relay auxiliary contacts of overload relay     one that one content of relayed to the content of relayed on the content o      | Overload relay  |   |
| Pinase failure detection     Sysymmetry     Sysymme      | product function  |   |
| asymmetry detection     orgona fault detection     vest tenter.     elect function     vest external reset     vest over external reset of switch disconnector     vest over external reset of switch disconnector     vest over external reset of protection NEMA rating of the enclosure     vest over external reset of protection NEMA rating of the enclosure     vest over external reset of protection NEMA rating of the enclosure     vest over external reset of protection for supply voltage line-side     vest over external reset over external reset over external reset of protection re      | <ul> <li>overload protection</li> </ul>                           | Yes                                     |
| ground fault detection     external reset     external reset     external reset     ves     ves     external reset     ves     ves     ves     external reset     ves          | phase failure detection   | Yes                                     |
| * test function     * external reset     * ext      | asymmetry detection   | Yes                                     |
| reset function Manual, automatic and remote trip class CLASS \$7.10 / 20 (factory set) / 30 adjustable current response value current of the current dependent overload release tripping time at phase-loss maximum 3 s reletive repeat accuracy 1% contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 A contact starting of auxiliary contacts of overload relay 1 A contact starting of auxiliary contacts of overload relay according to 1 A C at 500 V 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5   | <ul> <li>ground fault detection</li> </ul>                        | Yes                                     |
| reset function Manual, automatic and remote trip class CLASS 57 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum 3 s. relative repeat accuracy 1 typing time at phase-loss maximum 1 s. and tripping time at AC at 40 contacts of auxiliary contacts of overload relay 1 s. and the tripping time at AC at 50 V 5 A at Class 150 V 5 A A A C | • test function   | Yes                                     |
| trip class adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum  3 s relative repeat accuracy 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 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 2 of AC at 500 V 2 of AC at 500 V 3 fA 3 fA 4 fA 4 fA 5 fA 4 fA 5 fA 4 fA 5 fA 5 fA 4 fA 5   | external reset  | Yes                                     |
| adjustable current response value current of the current- dependent overload release 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 number of NO contacts of auxiliary contacts of overload relay 1 at AC at 500 V 1 at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay seconding to U. Insulation voltage (UI)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-p | reset function  | Manual, automatic and remote            |
| dependent overload release tripping time at phase-loss maximum relative repeat accuracy number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V 5 A contact rating of auxiliary contacts of overload relay with single-phase operation at AC rated value on-fusible response value of switch disconnector design of fuse holder non-fusible poperating class of the fuse link non-fusible poperating class of the fuse link non-fusible  | trip class  | CLASS 5 / 10 / 20 (factory set) / 30    |
| relative repeat accuracy number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 2 operational current of auxiliary contacts of overload relay 3 at AC at 600 V 5 A 1 AC at 600 V 5 A 2 at DC at 250 V 5 A Contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) 4 with single-phase operation at AC rated value 5 with multi-phase operation at AC rated value 6 with multi-phase operation at AC rated value 6 with multi-phase operation at AC rated value 7 and 7 | ·   | 3 12 A                                  |
| number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V  At DC at 250 V  at DC at 250 V  by e of the contacts of overload relay according to the single-phase operation at AC rated value with multi-phase operation at AC rated value with mu | tripping time at phase-loss maximum                               | 3 s                                     |
| number of NO contacts of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V 1A  contact rating of auxiliary contacts of overload relay  • with single-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase oper | · · · · · · · · · · · · · · · · · · ·                             | 1 %                                     |
| e at AC at 600 V  • at DC at 250 V  1 A  contact rating of auxiliary contacts of overload relay according to U.I  insulation voltage (UI)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • onor-fusible  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  operating of sas of the fuse link  portation of supply to the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  Mounting/wirring  mounting position  Vertical  fastening method  surface mounting and installation  type of electrical connection for supply voltage line-side  Box lug  style of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  type of electrical connection for load-side outgoing feeder  stylene of electrical connection for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stylene of electrical connection for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stylene of electrical connection of magnet coil  type of connectable conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stylene of electrical connection of magnet coil  type of connectable conductor for load-side outgoing feeder  stylene of electrical connection of magnet coil  type of  | number of NC contacts of auxiliary contacts of overload relay     | 1                                       |
| ■ at AC at 600 V ■ at DC at 250 V 1A contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) ■ with single-phase operation at AC rated value ■ with multi-phase operation at AC rated value ■ with multi-phase operation at AC rated value ■ with multi-phase operation at AC rated value ■ 300 V  Disconnect Switch response value of switch disconnector ■ 30A / 600V ■ design of fuse holder ■ operating class of the fuse link ■ non-fusible  Enclosure ■ degree of protection NEMA rating of the enclosure ■ design of the housing ■ dustproof and drip-proof for indoor use  Mounting/wiring ■ wounting position ■ Vertical  fastening method  ype of electrical connection for supply voltage line-side # dightening torque [lbf-in] for supply  ype of connectable conductor cross-sections at line-side for  AUXG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  fastering lorque [lbf-in] for load-side outgoing feeder  stype of electrical connection for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stype of electrical connection for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stype of electrical connection of magnet coil  screw-type terminals  tightening torque [lbf-in] at magnet coil  screw-type terminals  tightening torque [lbf-in] at magnet coil  screw-type terminals  style in in the magnet coil  screw-type terminals                            | ·   | 1                                       |
| e at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (UI)  e with single-phase operation at AC rated value e with multi-phase operation at AC rated value 300 V  Disconnect Switch  response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible operating class of the fuse link  Recolosure  degree of protection NEMA rating of the enclosure design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [Ibf-in] for supply  AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible response value of switch disconnector 30A / 600V  600 V  90A / 600V  600 V  90A / 600V  90  | operational current of auxiliary contacts of overload relay       |   |
| contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (UI)  with single-phase operation at AC rated value  with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link  non-fusible operating class of the fuse link  Including wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [Ibf-in] for supply type of connectable conductor for load-side outgoing feeder type of connectable conductor or oss-sections for AWG cables for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connector for load-side outgoing feeder material of the conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connectable conductor or oss-sections for AWG cables for load-side outgoing feeder type of electrical connectable conductor or load-side outgoing feeder type of electrical connectable conductor or load-side outgoing feeder type of electrical connectable conductor or load-side outgoing feeder stightening torque [Ibf-in] for load-side outgoing feeder stightening torque [Ibf-in] at magnet coil screw-type terminals tightening torque [Ibf-in] at magnet coil screw-type terminals  | • at AC at 600 V  | 5 A                                     |
| insulation voltage (UI)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  300 V  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  Factoria  deerge of protection NEMA rating of the enclosure  deerge of protection NEMA rating of the enclosure  MEMA Type 12  design of the housing  mounting position  Vertical  fastening method  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  fype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  screw-type terminals  tightening torque [lbf-in] for load-side outgoing feeder  for COU  type of electrical connection for load-side outgoing feeder  for COU  type of connectable conductor for load-side outgoing feeder  for COU  type of connectable conductor for load-side outgoing feeder  for COU  type of connectable conductor for load-side outgoing feeder  for COU  type of connectable conductor for load-side outgoing feeder  for COU  type of electrical connection of magnet coil  Screw-type terminals  tightening torque [lbf-in] at magnet coil  for COU  type of connectable conductor cross-sections of magnet coil for AWG cables for onnectable conductor cross-sections of magnet coil for AWG cables for onnectable conductor cross-sections of magnet coil for AWG cables for onnectable conductor cross-sections of  | • at DC at 250 V  | 1 A                                     |
| with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V  Disconnect Switch  response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible  perating class of the fuse link non-fusible  Brocosure  degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring  mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections for AVG cables for load-side outgoing feeder stype of connectable conductor for supply AL or CU type of connectable conductor for supply Type of connectable conductor for supply AL or CU type of connectable conductor for supply Type of connectable conductor for load-side outgoing feeder Type of electrical connection of magnet coil Type of electrical connection of magnet coil Type of connectable conductor cross-sections of magnet coil of connectable conductor cross-sections of magnet coil   |   | 5A@600VAC (B600), 1A@250VDC (R300)      |
| with multi-phase operation at AC rated value   300 V   | insulation voltage (Ui)   |   |
| Pisconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link non-fusible  peroconnectable conductor for load-side outgoing feeder maximum permissible  30A / 600V  30A / 6 | <ul> <li>with single-phase operation at AC rated value</li> </ul> | 600 V                                   |
| response value of switch disconnector  design of fuse holder operating class of the fuse link non-fusible  reclosure  degree of protection NEMA rating of the enclosure  design of the housing  mounting writing  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  MC ables single or multi-stranded  temperature of the conductor for supply maximum permissible  tightening torque [lbf-in] for load-side outgoing feeder stightening torque [lbf-in] for load-side outgoing feeder  fasterior of the conductor cross-sections of a MC cables for load-side outgoing feeder  fasterior of the conductor for supply  AL or CU  Screw-type terminals  1x (14 2 AWG)  | <ul> <li>with multi-phase operation at AC rated value</li> </ul>  | 300 V                                   |
| design of fuse holder operating class of the fuse link non-fusible  Enclosure  degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 4 S 35 lbf-in 1 x (14 2 AWG) AL or CU type of electrical connection for supply maximum permissible for load-side outgoing feeder 35 35 lbf-in 1 x (14 2 AWG)  AL or CU type of connectable conductor cross-sections of magnet coil temperature of the conductor for supply AL or CU type of connectable conductor for supply The conductor for supply AL or CU type of electrical connection for load-side outgoing feeder To "C" To "                 | Disconnect Switch   |   |
| perating class of the fuse link non-fusible  Enclosure  degree of protection NEMA rating of the enclosure dustproof and drip-proof for indoor use  Mounting/wiring  mounting position 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 for A/WG cables single or multi-stranded temperature of the conductor for supply maximum permissible  tightening torque [lbf-in] for load-side outgoing feeder Screw-type terminals  tightening torque [lbf-in] for load-side outgoing feeder Tos Screw-type terminals  to the conductor for supply Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the material of the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to the conductor for load-side outgoing feeder Tos Screw-type terminals  to      | response value of switch disconnector                             | 30A / 600V                              |
| degree of protection NEMA rating of the enclosure design of the housing dustproof and drip-proof for indoor use  Mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply type of electrical connection for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder  maximum permissible material of the conductor for load-side outgoing feeder  maximum permissible material of the conductor for load-side outgoing feeder  maximum permissible material of the conductor for load-side outgoing feeder  maximum permissible material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the con | design of fuse holder   | non-fusible                             |
| degree of protection NEMA rating of the enclosure design of the housing  mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side tightening torque [libf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder type of connectable conductor for special outgoing feeder attemperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder attemperature of the conductor for load-side outgoing feeder attemperature of the conductor for load-side outgoing feeder attemperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder mater | operating class of the fuse link                                  | non-fusible                             |
| design of the housing  Mounting/wiring  mounting position  Vertical fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  toghtening torque [lbf-in] for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  maximum permissible  temperature of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  screw-type terminals  1x (14 2 AWG)  75 °C  2x (16 12 AWG)  | Enclosure   |   |
| mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder type of electrical connection for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder stightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded   | degree of protection NEMA rating of the enclosure                 | NEMA Type 12                            |
| mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  temperature of the conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of cennectable conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  screw-type terminals  1x (14 2 AWG)  1x (14 2 AWG)  75 °C  2x (16 12 AWG)   | design of the housing   | dustproof and drip-proof for indoor use |
| fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  2x (16 12 AWG)   | Mounting/wiring   |   |
| type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  35 35 lbf-in  1x (14 2 AWG)  AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  temperature of the conductor for supply maximum permissible  75 °C  material of the conductor for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for  AWG cables single or multi-stranded   | mounting position   | Vertical                                |
| tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  temperature of the conductor for supply maximum permissible  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  2x (16 12 AWG)   | fastening method  | Surface mounting and installation       |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible 75 °C  material of the conductor for load-side outgoing feeder Screw-type terminals  tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf-in  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU  type of electrical connection of magnet coil 5 12 lbf-in  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded   | type of electrical connection for supply voltage line-side        | Box lug                                 |
| AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  rype of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  2x (16 12 AWG)   | tightening torque [lbf·in] for supply                             | 35 35 lbf-in                            |
| material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  | 7.  | 1x (14 2 AWG)                           |
| type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)   | temperature of the conductor for supply maximum permissible       | 75 °C                                   |
| tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  35 35 lbf-in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  | material of the conductor for supply                              | AL or CU                                |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)   | type of electrical connection for load-side outgoing feeder       | Screw-type terminals                    |
| for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  | tightening torque [lbf·in] for load-side outgoing feeder          | 35 35 lbf-in                            |
| maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  | 7.  | 1x (14 2 AWG)                           |
| material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)   |   | 75 °C                                   |
| tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  5 12 lbf-in  2x (16 12 AWG)  | material of the conductor for load-side outgoing feeder           | AL or CU                                |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  2x (16 12 AWG)  | type of electrical connection of magnet coil                      | Screw-type terminals                    |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  | ·   | 5 12 lbf·in                             |
| ·  | type of connectable conductor cross-sections of magnet coil for   | 2x (16 12 AWG)                          |
| permissible  | temperature of the conductor at magnet coil maximum               | 75 °C                                   |
| material of the conductor at magnet coil CU  | material of the conductor at magnet coil                          | cu                                      |
| type of electrical connection at contactor for auxiliary contacts  Screw-type terminals  | 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) |
| 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

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUC950DL

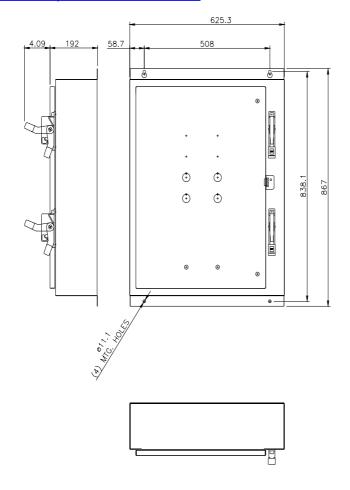
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUC950DL

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUC950DL&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUC950DL&lang=en</a>

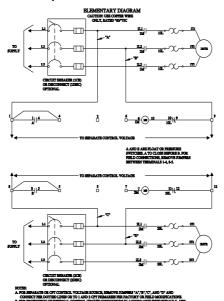
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUC950DL/certificate



## SCHEMATIC DIAGRAM

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



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