## **SIEMENS**

Data sheet US2:84EUE95WDF



Duplex starter w/o alternator Size 1.75 Three phase full voltage Solid-state overload relay OLR amp range 10-40A 110VAC 50Hz / 120VAC 60Hz Coil Combination type Two 60A disconnect switches Encl NEMA type 4X 304 S. Steel Water/dust tight non-corrosive

| 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; Half-size controller                                   |
| 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  | 10 hp   |
| <ul><li>at 220/230 V rated value</li></ul>                              | 10 hp   |
| • at 460/480 V rated value  | 15 hp   |
| • at 575/600 V rated value  | 15 hp   |
| Contactor   |   |
| size of contactor   | Controller half size 1 3/4  |
| 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                          | 40 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   |
| • at AC at 50 Hz rated value  | 110 110 V   |
| at AC at 60 Hz rated value  | 120 120 V   |
| holding power at AC minimum   | 8.6 W   |

| apparent plackup power of magnet coal at AC parenting range factor control supply voltage rated value of magnet coal magnet coal magnet coal magnet coal magnet coal percental drop-out voltage of magnet coal percental drop-out drop-out-out-out-out-out-out-out-out-out-out   | apparent pick up power of magnet call at AO                       | 210 \/A  |
|--|---|--|
| concrating range factor control supply vottage rated value of magnet coil related to the input vottage of vottage related to the input vottage related to the input vottage related to the input vottage of vottage related vottage related to the input vottage related vottage related to the input vottage related vott | apparent holding power of magnet coil at AC                       | 218 VA   |
| precental drop-out voltage of magnet coil related to the input voltage of percental drop-out voltage of magnet coil related to the input voltage of percental drop-out voltage of magnet coil related to the input voltage of percental drop-out function  • Verically time  • Verical protection  • Verical protection  • Verical protection  • Verical protection  • Verical drotted teachers  • Verical drotted teachers  • Let function  • Verical drotted drotted teachers  • Let function  • Let fun |   |  |
| voltage OPF-delay time OPF-delay tim | magnet coil   |  |
| ### Control of Table   |   | 50 %   |
| Overload relay product function  Overload protection Overs Overload protection Overs | ON-delay time   | 19 29 ms                                       |
| product function  • overload protection • phase failure detection • phase failure detection • phase failure detection • phase failure detection • practice failure detection • practice failure detection • practice failure detection • cesternal reset • cesternal response value current of the current- dependent overload release • tripping time at phase-loss maximum • releave repeat accuracy • an Ac at 800 V • at 0 Ca at 250 V • with small-phase operation at AC rated value • with multi-phase operation of AC rated value • with multi-phase o | OFF-delay time  | 10 24 ms                                       |
| voverload protection     viphase failure detection     ves     asymmetry detection     ves     very detection     ves     very detection     ves     ves     very detection     ves     ves     very detection     ves         | Overload relay  |  |
| phase failure detection     asymmetry detection     cround fault detection     ves     cround fault detection     ves     estertunction     ves     reset function     ves     reset function     manual, automatic and remote     trp class     adjustable current response value current of the current-dependent overload release     tripping time at phase-loss maximum     relative repeat accuracy     rumber of NC contacts of auxiliary contacts of overload relay     rumber of NC contacts of auxiliary contacts of overload relay     anther of NC contacts of auxiliary contacts of overload relay     at AC at 800 V     at DC at 250 V     at DC at 250 V     at DC at 250 V     with multi-phase operation at AC rated value        | product function  |  |
| a symmetry detection ground fault detection ground fault detection external reset yes esternal reset Yes  reset function ftrp class CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current-dependent overdoad release tripping time at phase-loss maximum 3 s relative repeat accuracy number of NO contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay at AC at 800 V at DC at 250 V contact rating of auxiliary contacts of overload relay ewith 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 operating class of the fuse link response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible  Fine obsurv  design of the nousing  Mounting-piction Mounting-piction mounting position  Enclosure  design of the conductor for supply voltage line-side degree of protection NEMA rating of the enclosure  design of the conductor for supply voltage line-side spirtning ingrue [Uri-in] for supply ype of electrical connection for supply voltage line-side spirtning torque [Uri-in] for load-side outgoing feeder spirtning torque [Uri-in] for load-side outgoing feeder spirtning torque [Uri-in] for load-side outgoing feeder spirtneng torque [Uri-in] for load-side outgoing feeder spire of electrical connection for load-side outgoing feeder spire of electrical connection for load-side outgoing feeder spire of electrical connection for load-side outgoing feeder maximum permissible note of the conductor for load-side outgoing feeder maximum permissible spire of electrical connection of magnet coil for load-side outgoing feeder spire of electrical connection of magnet coil for load-side outgoing feeder spire of electrical connection of magnet coil for load-side outgoing feeder single even for magnet coil for load-side outgoing f  | <ul> <li>overload protection</li> </ul>                           | Yes  |
| • ground fault detection • test function • external reset • external rese  | phase failure detection   | Yes  |
| East function     East function     East function     East function     East function     Manual, automatic and remote     CLASS \$ / 10 / 20 (factory set) / 30      adjustable current response value current of the current-dependent overload release     tripping lime at phase-loss maximum     3 s     tripping lime at phase-loss maximum     3 s     Insulation of NC contacts of auxiliary contacts of overload relay     1 s     ambor of NC contacts of auxiliary contacts of overload relay     • at AC at 600 V     • at DC at 250 V     1 A     contact rating of auxiliary contacts of overload relay     • at AC at 250 V     1 A     contact rating of auxiliary contacts of overload relay     • at DC at 250 V     1 A     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     300 V  Disconnect Switch     response value of switch disconnector     600 V     • with multi-phase operation at AC rated value     0perating class of the fuse link     coperating class of the fuse link     contact rating of the enclosure     design of fuse housing     dustproof, waterproof & resistant to corrosion     Mounting/wirther     mounting position     Vertical     its protection NEMA rating of the enclosure     design of the conductor for supply voltage line-side     its protection of the conductor for supply voltage line-side to surface mounting and installation     bype of electrical connection for supply voltage line-side for the conductor for supply waximum permissible     imperature of the conductor for load-side outgoing feeder     sustend provided for supply waximum permissible     imperature of the conductor for load-side outgoing feeder     maximum permissible     included the conductor for load-side outgoing feeder     included     | asymmetry detection   | Yes  |
| reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum 3 s relative repeat accuracy 1 1% number of NC 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 number of NC contacts of auxiliary contacts of overload relay 2 s at NC 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 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload release tripative repeat accuracy 1% as a second relative repeat accuracy 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 at AC at 500 V 5 A at DC at 250 V 5 A AC with single-phase operation at AC rated value 600 V 6 with multi-phase operation at AC rated value 600 V 6 with multi-phase operation at AC rated value 600 V 6 AC (800), 1A(8) 250 VDC (R300) VD | • 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 • at AC at 600 V • at DC at 250 V • with multi-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation of fuse on the value of | external reset  | Yes  |
| adjustable current response value current of the current- dependent overtoad release tripping time at phase-loss maximum  3 s relative repeat accuracy 1 1% number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 2 at AC at 600 V 3 at CC at 250 V 4 at CC at 250 V 5 A 3 at CC at 250 V 5 A 4 at CC at 250 V 5 A 5 A 5 A 5 A 5 A 5 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6   | 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 operational current of auxiliary contacts of overload relay at NC at 600 V at DC at 250 V bat DC at 250 V  | 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 NO contacts of auxiliary contacts of overload relay 2 operational current of auxiliary contacts of overload relay 3 at NC at 800 V 5 at DC at 250 V 5 contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) 4 with single-phase operation at AC rated value 5 over with multi-phase operation at AC rated value 6 00 V 6 with single-phase operation at AC rated value 7 operating of switch disconnector 8 design of fuse holder 9 operating class of the fuse link 8 response value of switch disconnector 9 degree of protection NEMA rating of the enclosure 9 degree of protection NEMA rating of the enclosure 9 degree of protection NEMA rating of the enclosure 9 degree of protection NEMA rating of the enclosure 9 design of the housing 9 mounting position 9 wounting position 9 vertical 1 stantaing method 1 type of electrical connection for supply voltage line-side 1 stype of connectable conductor cross-sections at line-side for 2 MVG cables single or multi-stranded 1 temperature of the conductor for supply maximum permissible 1 type of electrical connectable conductor cross-sections for AWG cables single or multi-stranded 1 temperature of the conductor for load-side outgoing feeder 1 stype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder 2 stype of electrical connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 3 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing feeder 2 stype of connectable conductor for load-side outgoing | ·   | 10 40 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  Contact rating of auxiliary contacts of overload relay at DC at 250 V  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 of witch of tuse ink response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible  Finclosure  degree of protection NEMA rating of the enclosure design of the housing mounting position Mounting/wiring  Mounting position Vertical fastening method Surface mounting and installation Sype of electrical connection for supply voltage line-side subjective of connectable conductor cross-sections at line-side for AUX cables single or multi-stranded femperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder subjective according to the side outgoing feeder subjective according to 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 subject of load-side outgoing feeder AL or CU Sye of electrical connection of magnet coil subjective according to the conductor of subject outgoing feeder AL or CU Sye of electrical connection of magnet coil subjective according to the | 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  overload for switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  Enclosuro  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection of the housing  mounting position  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  ype of connectable conductor cross-sections at line-side for AMC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  rightening torque [lbf-in] for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of electrical connectable conductor cross-sections for AWC cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of onenectable conductor for load-side outgoing feeder  for oonectable conductor for load-side outgoing feeder  askinum permissible  material 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 for 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  screw-type terminals  tightening torque [lbf-in] at magnet coil  yee of electrical connection for magnet coil  yee of electrical connection for single or multi-strande | · · · · · · · · · · · · · · · · · · ·                             | 1 %  |
| e at AC at 600 V e at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay several training 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 e with multi-phase operation at AC rated value operating class of the fuse link non-fusible response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible renclosure  Wetten design of the housing mounting position fastening method type of electrical connection for supply voltage line-side tightening forque [lbf-in] for supply you advised outgoing feeder AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable 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 connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connection for load-side outgoing feeder themperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder such as the function of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder such as the function of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil screw-type terminals type of electrical connection of magnet coil for type of electrical connection for magnet coil for type of electrical connection for magnet coil for type of electrical connection for magnet coil for type of electrical connection of magnet c | number of NC contacts of auxiliary contacts of overload relay     | 1  |
| at AC at 600 V at DC at 250 V  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  overline with disconnector design of fuse holder operating class of the fuse link  conor-fusible operating class of the fuse link  confusible operating class of the fuse link  confusible operating of the housing design of the housing design of the housing  design of the housing  mounting position  Vertical fastening method surface mounting and installation type of electrical connection for supply voltage line-side of lact plant in the connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible for lact of the conductor for supply maximum permissible for lact of the conductor for supply maximum permissible for load-side outgoing feeder stype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder stype of electrical connection for load-side outgoing feeder stype of electrical connectable conductor for supply AL or CU type of electrical connectable conductor for load-side outgoing feeder stype of connectable conductor for load-side outgoing feeder and the conductor for load-side outgoing feeder stype of connectable conductor for load-side outgoing feede  | number of NO contacts of auxiliary contacts of overload relay     | 1  |
| at DC at 250 V  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  overland of switch  response value of switch disconnector design of fuse holder operating class of the fuse link  response value of switch disconnector design of fuse holder operating class of the fuse link  response value of switch disconnector  design of fuse holder operating class of the fuse link  response value of switch disconnector  design of the housing  Mounting/wiring  Wertical fastening method  Surface mounting and installation  surface mounting and installation  fastening method  Surface mounting and installation  surface mounting and installation  fastening torque [lbf-inj for supply voltage line-side of AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  screw-type terminals  tightening torque [lbf-inj for load-side outgoing feeder Alvor Cables of the conductor or oss-sections for AWG cables for load-side outgoing feeder  type of connectable conductor ross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of connectable conductor ross-sections for AWG cables for load-side outgoing feeder  for "C  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  Screw-type terminals  tightening torque [lbf-inj at magnet coil  Screw-type terminals  tightening torque [lbf-inj at magnet coil  Screw-type terminals  | 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  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  overland fuse holder  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  operating class of the fuse link  non-fusible  functionsure  degree of protection NEMA rating of the enclosure  design of the housing  mounting liviring  mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  35 35 lbf-in  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  tightening torque [lbf-in] 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  screw-type terminals  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor for sepply  AL or CU  type of connectable conductor for sepply  AL or CU  type of connectable conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  screw-type terminals  tightening torque [lbf-in] at 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  | • 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  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  reclosure  degree of protection NEMA rating of the enclosure  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  type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible  material or the conductor for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of connectable conductor for saye sections for AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of electrical connection of magnet coil  Screw-type terminals  tightening torque [Ibf-in] at magnet coil  Screw-type terminals  tightening torque [Ibf-in] at magnet coil  Screw-type terminals  type of connectable conductor cross-sections of magnet coil for 2x (18 12 AWG)   | • 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  operating class of the fuse link non-fusible  response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible  Recolosure  degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring  mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 15 °C  Material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible 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 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 conductor for load-side outgoing feede   |   | 5A@600VAC (B600), 1A@250VDC (R300)             |
| with multi-phase operation at AC rated value   300 V   | insulation voltage (Ui)   |  |
| Disconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link  non-fusible  recording class of the fuse link  response value of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  mounting wiring  mounting position  Vertical  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  gightening 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  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of connectable 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  m | <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  recovered  degree of protection NEMA rating of the enclosure design of the housing dustproof, waterproof & resistant to corrosion  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply ype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible 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 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 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-s | <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 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 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 supply AL or CU type of electrical connection 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 for CU type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)   | Disconnect Switch   |  |
| perating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply type of connectable conductor for load-side outgoing feeder material of the | response value of switch disconnector                             | 60A / 600V                                     |
| degree of protection NEMA rating of the enclosure  design of the housing  mounting position  fastening method  type of electrical connection for supply voltage line-side outgoing feeder  tightening torque [libf-in] for load-side outgoing feeder maximum permissible  type of connectable conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  stype of connectable conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of connectable 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 conductor for load-side outgoing feeder  1x (14 2 AWG)  | design of fuse holder   | non-fusible                                    |
| degree of protection NEMA rating of the enclosure design of the housing  mounting/wiring  mounting position type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply the perature of the conductor for supply type of electrical connection for supply type of electrical connection for supply temperature of the conductor cross-sections at line-side for AWG cables ingle 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 tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor for supply type of connectable conductor for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder 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 tightening torque [lbf·in] at magnet coil type of connectable conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)   | operating class of the fuse link                                  | non-fusible                                    |
| design of the housing  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 load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  temperature 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 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 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  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 maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections of a NaWG cables  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  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  Screw-type terminals  1x (14 2 AWG)  1x (14 2 AWG)  75 °C  AL or CU  type of electrical connection of magnet coil  Screw-type terminals  1x (14 2 AWG)   | degree of protection NEMA rating of the enclosure                 | NEMA 4x 304 stainless steel 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 maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  temperature of the conductor for Supply  AL or CU  Screw-type terminals  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 electrical connection of magnet coil  screw-type terminals  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)  | design of the housing   | dustproof, waterproof & resistant to corrosion |
| 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  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  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  2x (16 12 AWG)   | Mounting/wiring   |  |
| 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  type of connectable 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 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  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)   | 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  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible  material 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 connectable conductor cross-sections of magnet coil  5 12 lbf-in  type of connectable conductor cross-sections of magnet coil for   | 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 material of the conductor for supply  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 AL or CU  type of electrical connection of magnet coil  type of connectable 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 of connectable conductor cross-sections of connectable conductor cross-sections of connectable conductor cross-sections of connectable con | 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  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  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  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for  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  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for  type of connectable conductor cross-sections of magnet coil for  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  type of connectable conductor cross-sections of magnet coil for   | 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 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  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  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  2x (16 12 AWG)  | tightening torque [lbf·in] for load-side outgoing feeder          | 45 45 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  2x (16 12 AWG)   | **  | 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  |   | 75 °C  |
| tightening torque [lbf-in] at magnet coil  5 12 lbf-in  type of connectable conductor cross-sections of magnet coil for 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 2x (16 12 AWG)   | type of electrical connection of magnet coil                      | Screw-type terminals                           |
| type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)   | ·   | 5 12 lbf-in                                    |
|  | type of connectable conductor cross-sections of magnet coil for   | 2x (16 12 AWG)                                 |
| temperature of the conductor at magnet coil maximum permissible 75 °C  | 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)
<a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84EUE95WDF">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84EUE95WDF</a>

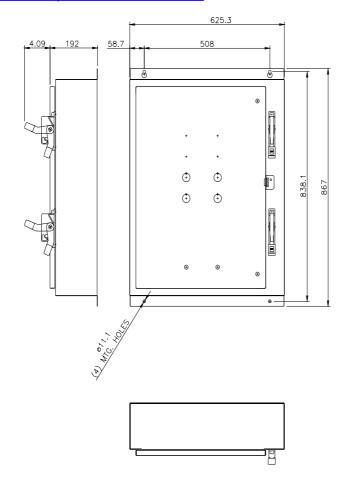
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WDF

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=US2:84EUE95WDF&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84EUE95WDF&lang=en</a>

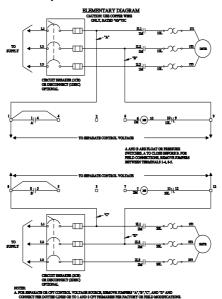
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WDF/certificate



## SCHEMATIC DIAGRAM

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



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