## **SIEMENS**

Data sheet US2:87DUC6LJ



Figure similar

Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 24VAC 50-60Hz coil, Standard type contactor, 30A fusible disconnect, 30A/250V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

| product brand name  | Class 87  |
|---|---|
| design of the product   | Pump control panel with fused disconnect switch |
| special product feature   | ESP200 overload relay                           |
| General technical data  |   |
| weight [lb]   | 47 lb   |
| Height x Width x Depth [in]   | 29 × 20 × 8 in                                  |
| touch protection against electrical shock                               | NA for enclosed products                        |
| installation altitude [ft] at height above sea level maximum            | 6560 ft   |
| ambient temperature [°F]  |   |
| during storage  | -22 +149 °F                                     |
| during operation  | -4 +104 °F                                      |
| ambient temperature   |   |
| <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                |   |
| <ul> <li>at 200/208 V rated value</li> </ul>                            | 2 hp  |
| • at 220/230 V rated value  | 2 hp  |
| <ul> <li>at 460/480 V rated value</li> </ul>                            | 0 hp  |
| • at 575/600 V rated value  | 0 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       | 240 V   |
| operational current at AC at 600 V rated value                          | 27 A  |
| mechanical service life (switching cycles) of the main contacts typical | 10000000  |
| Auxiliary contact   |   |
| number of NC contacts at contactor for auxiliary contacts               | 0   |
| number of NO contacts at contactor for auxiliary contacts               | 1   |
| number of total auxiliary contacts maximum                              | 8   |
| contact rating of auxiliary contacts of contactor according to UL       | 10A@600VAC (A600), 5A@600VDC (P600)             |
| Coil  |   |
| type of voltage of the control supply voltage                           | AC  |
| control supply voltage  |   |

| and Act 150 Hz railed value and Act 150 Hz railed value and Act 150 Hz railed value apparent pick-up power of magnet coll at AC power pick-up power of magnet coll at AC apparent pick-up power of magnet coll at AC operating range factor control supply voltage rated value of magnet coll percential drop out voltage of magnet coll related to the power percential drop out voltage of magnet coll related to the ON-delay time ON-delay time ON-delay time Overdoor mitsy product function  • overload protection • opiound fault detection • pass failure detection • pass failure detection • power of the function • cesternal reset  • esternal reset • esternal reset  • esternal reset  • esternal reset  • esternal reset  • product feature protective coating on printed-circuit board number of NC contracts of auxiliary contracts of overload relay  operational current of auxiliary contracts of overload relay  operational current of auxiliary contracts of overload relay  • otto C at 250 V • at 150 C at 250 V • a  | at DC rated value   | 0 0 V                                   |
|--|---|---|
| and AC at 60 Nr criterio value apparent pock-up power of magnet coil at AC operating range factor control supply voltage rated value apparent pock-up power of magnet coil at AC operating range factor control supply voltage rated value apparent pock-up power of magnet coil related to the input voltage ON-design time  OFF-datay time  OFF-datay time  OVerfload rotted  **Pes **Product function  **Product  |   |   |
| holding power at AC minimum apparent pick-up power of magnet coil at AC 218 VA operating range factor control supply voltage rated value of magnet coil properties of top-out voltage of magnet coil related to the upsh voltage OFF-delay time 19 29 ms OFF-delay time 10 24 ms  Overload relay product function • overload protection • phase failure detection • phase failure detection • phase failure detection • pround fault detection • pround fault detection • rest function • pround fault detection • external reset • reset function • program factor overload relay adjustable current response value current of the current- dependent overload release  **Tepping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board rurabor of NC contacts of auxiliary contacts of overload relay • at AC at 800 V • at DC at 280 V  contact rating of auxiliary contacts of overload relay • at AC at 800 V • with multi-phase operation at AC rated value • with multi-phase operation of accurate of the current design of fuse holder control of fuse of with disconnector design of fuse holder control of the current septomase value or with phase-loss of the fuse link  Enclosure  design of fuse holder control of fuse of with disconnector yee of start push button  yee of concelable conductor for supply voltage line-side at AWG cabbes single or multi-stranded enterpretation of the conductor for supply waitinum p         |   |   |
| apparent plok-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil drop-out voltage of magnet coil related to the input voltage of magnetic magn |   |   |
| operating range factor control supply voltage rated value of magnet coil related to the impat voltage of magnet coil related to the input voltage  |   |   |
| percental drop-out voltage of magnet coil related to the input voltage of the fuse in its contact ratio of the fuse in its contact r | operating range factor control supply voltage rated value   |   |
| ON-delay time 10 24 ms  Overload relay product function  | percental drop-out voltage of magnet coil related to the    | 50 %                                    |
| Overload relay product function • overload protection • oyand fault detection • ground fault detection • external reset • ground fault detection • external reset • external reset • yes • categorial state of the current- dependent overload release • tripping lime at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board relay product feature protective coating on printed-circuit board relay product feature protective coating on printed-circuit board relay • at AC at 600 v • at DC at 250 v • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  * operating class of the fixe link  **Pisconnect Switch  **Class H, K and R  **Emolouro  **Gesign of fuse holder - operating class of which disconnector  design of fuse holder - operating class of which see link  **Class H, K and R  **Emolouro  **Gesign of the housing  **Standard Control Devices  **product component Hand-Off-Auto selector switch - yes of start push button - yes of learning position  **Standard Control Devices  **Pisconnect Switch  **Gesign of the nousing with matte finish - product component start push button - yes of learning position  **Standard Control Devices - product component start push button - yes of learning position - start push button - yes of learning position - start push button - yes of learning position - start push button - yes of learning position - start push button - yes of learning position - start push button - yes - yes of the  |   | 19 29 ms                                |
| product function  • overload protection • phase failure detection • phase failure detection • saymmetry detection • saymmetry detection • ground fault detection • test function • external reset • external reset  reset function  Manual, automatic and remote  trip class digustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V  ontact rating of auxiliary contacts of overload relay • with multi-phase operation at AC rated value operating class of the fuse link  Disconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link  Class H fuse clips  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection operated and-Off-Auto selector switch  yea of stand-Off-Auto selector switch  yea of stand-O |   | 10 24 ms                                |
| product function  • overload protection • phase failure detection • phase failure detection • saymmetry detection • saymmetry detection • ground fault detection • test function • external reset • external reset  reset function  Manual, automatic and remote  trip class digustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V  ontact rating of auxiliary contacts of overload relay • with multi-phase operation at AC rated value operating class of the fuse link  Disconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link  Class H fuse clips  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection operated and-Off-Auto selector switch  yea of stand-Off-Auto selector switch  yea of stand-O |   |   |
| phase failure detection asymmetry detection asymmetry detection asymmetry detection test function test function test function trip class reset function  Manual, automatic and remote trip class reset function  Manual, automatic and remote  CLASS 5 / 10 (factory set) / 20 / 30  adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coeting on printed-circuit board rumber of NC contacts of auxiliary contacts of overload relay  reset function  A C at 600 V  at NC at 600 V  at NC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  with single-phase operation at AC rated value with multi-phase operation of AC rated value with multi-pha  |   |   |
| phase failure detection asymmetry detection asymmetry detection asymmetry detection test function test function test function trip class reset function  Manual, automatic and remote trip class reset function  Manual, automatic and remote  CLASS 5 / 10 (factory set) / 20 / 30  adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coeting on printed-circuit board rumber of NC contacts of auxiliary contacts of overload relay  reset function  A C at 600 V  at NC at 600 V  at NC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  with single-phase operation at AC rated value with multi-phase operation of AC rated value with multi-pha  | •   | Yes                                     |
| asymmetry detection     ground fault detection     yes     test function     external reset     Yes     external reset     Yes     adjustable current response value current of the current-dependent overload release     tripping time at phase-loss maximum     3 s     trelative repeat accuracy     product feature protective coating on printed-circuit board     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     operational current of auxiliary contacts of overload     relay     operational current of auxiliary contacts of overload relay     e at AC at 600 V     at DC at 250 V     at DC at 250 V     at DC at 250 V     insulation voltage (U)     with single-phase operation at AC rated value     with multi-phase operation at AC rated value     operating class of the fuse link     Class H, Kand R  Enclosure  degree of protection NEMA rating of the enclosure     design of the housing     Weather proof for outdoor use  Standard Control Devices     product component Hand-Off-Auto selector switch     type of stard push button     yes     yes of sair dynash button     yes     yes of sair dynash button     yes     yes of sair dynash button     yes     suppose of electrical connector for supply voltage line-side     tat AWC aclibes single or multi-stranded     temperature of the conductor for supply maximum     permissible     material of the conductor for supply     AL or CU  | •   | Yes                                     |
| ground fault detection     test function     external reset     external reset     reset function     Aguitable current response value current of the current dependent overload release     tripping time at phase-loss maximum     relative repeat accuracy     product feature protective coating on printed-circuit board     number of NC contacts of auxiliary contacts of overload     relay     and NC contacts of auxiliary contacts of overload     relay     and NC contacts of auxiliary contacts of overload     relay     and NC contacts of auxiliary contacts of overload     relay     at NC at 500 V     at DC at 250 V     at DC at 250 V     at DC at 250 V     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     owthing sholder     operating class of the fuse link     Class H, K and R  Enclosure     design of these holder     operating class of the fuse link     Class H, K and R  Enclosure     design of the shouler     operating class of the fuse link     class H, K and R  Enclosure     Meather proof for outdoor use  Standard Control Devices     Type of start push button     yes     of learn-off-Auto selector switch     yes of start push button     yes of start push button     yes of start push button     yes of set push button     yes o      | ·   | Yes                                     |
| reset function   |   | Yes                                     |
| reset function  trip class  CLASS 5 / 10 (factory set) / 20 / 30  adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board 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 AC at 800 V  • at DC at 250 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single of switch  Tesponse value of switch disconnector  design of fuse holder  degree of protection NEMA rating of the enclosure  feeling of the housing  Weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  Type of start push button  Mounting/wring  mounting position  Vertical  fastening method  type of electrical connection for supply voltage line-side  at AVIC cabbes single or multi-stranded  temperature of the conductor for supply  AL or CU  AL or CU   | • test function   | Yes                                     |
| trip class adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 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 single-phase operation at AC rated value • with solution of the sellong contact switch response value of switch disconnector design of fuse holder class of the fuse link Class H fuse clips class of the housing  Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch ype of start push button Yes  ype of start push button  Mounting/wring mounting position fastening method type of elencical connection for supply voltage line-side at AWC cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply material of the conductor for supply AL or CU   | external reset  | Yes                                     |
| adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board product feature protective coating on printed-circuit board relay product feature protective coating on printed-circuit board relay number of NC contacts of auxiliary contacts of overload relay and the protection of auxiliary contacts of overload relay at AC at 600 V  at AC at 600 V  at DC at 250 V  this 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 coording to UL response value of switch disconnector design of fuse holder operating class of the fuse link Class H, K and R  Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch ype of start push button Yes product component start push button Yes report for supply voltage line-side tipple relationship for supply  with great accuracy 1 1 % ype of connectable conductor for supply voltage line-side at AWC cabbes single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible  material of the conductor for supply AL or CU   | reset function  | Manual, automatic and remote            |
| dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current 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 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 Class H fuse clips operating class of the fuse link Class H, K and R  Enclosure degree of protection NEMA rating of the enclosure design of the housing Weather proof for outdoor use  Standard Control Devices product component Hand-Off-Auto selector switch Type of Hand-Off-Auto selector switch yes of start push button Yes Type of Hand-Off-Auto selector switch Wounting/wiring mounting position fastening method Type of electrical connection for supply voltage line-side ta AWC cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply AL or CU   | trip class  | CLASS 5 / 10 (factory set) / 20 / 30    |
| relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current 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 according to UL • 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 • operating class of the fuse link  response value of switch disconnector design of fuse holder operating class of the fuse link  Class H, K and R  Renclosure  degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  fersion of the housing  Weather proof for outdoor use  Standard Control Devicos  product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch ype of Hand-Off-Auto selector switch 30mm metal housing with matte finish  Mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side tightening torque [librin] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible   |   | 3 12 A                                  |
| product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay  • 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  • 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 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  • over the single of multi-disconnector  design of fuse holder  design of fuse holder  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  yes  type of Hand-Off-Auto selector switch  yes  type of Hand-Off-Auto selector switch  30mm metal housing with matte finish  Mounting/wiring  mounting/wiring  mounting with matte finish  Wertical  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor for supply wat | tripping time at phase-loss maximum                         | 3 s                                     |
| number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • 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  Operating class of the fuse link  Class H fuse clips  Operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  yee of start push button  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lef-in] for supply  1x (14 2 AWG)  attended the conductor for supply maximum  permissible  material of the conductor for supply maximum  permissible  material of the conductor for supply  AL or CU  | relative repeat accuracy                                    | 1 %                                     |
| relay number of NO contacts of auxiliary contacts of overload relay operational current 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 according to UL insulation voltage (U) • 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 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 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  • overlang class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  yes  type of Hand-Off-Auto selector switch  yes  type of start push button  Mounting/wiring  mounting position  fastening method  type of connection for supply voltage line-side  tightening torque [lib-in] for supply  35 35 lib-in  type of connectable conductor cross-sections at line-side  at AWG cables single or multi-stranded  temperature of the conductor for supply maximum  permissible  material of the conductor for supply maximum  permissible  | product feature protective coating on printed-circuit board | Yes                                     |
| relay operational current of auxiliary contacts of overload relay • 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  overlang of fuse holder response value of switch disconnector  design of fuse holder operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  flandard Control Devices  product component Hand-Off-Auto selector switch 1ype of Hand-Off-Auto selector switch 2ype of Hand-Off-Auto selector switch 30mm metal housing with matte finish  mounting/wiring  mounting position  fastening method 1ype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply  material of the conductor for supply  AL or CU  | •   | 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  ■ was possible of switch disconnector  ■ 30A / 250V □ Class H fuse clips □ 30A / 250V □ Class H, K and R □ Class H, K and R □ Vesather proof for outdoor use  ■ NEMA Type 3R □ weather proof for outdoor use  ■ Weather proof for outdoor use  ■ Standard Control Devices □ product component Hand-Off-Auto selector switch □ yes of start push button  ■ yes □ yes of start push button  ■ yes □ yes of start push button  ■ yes □ yes of start push button  ■ yound in the product component start push button  ■ yes □ yes of start push button  ■ yes □ yes of start push button  ■ yes □ yes of start push button  ■ yes □ y  |   | 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  with multi-phase operation at AC rated value  Tesponse value of switch disconnector  design of fuse holder  operating class of the fuse link  Class H fuse clips  operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  yes  type of start push button  Wounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  temperature of the conductor for supply  material of the conductor for supply  AL or CU  | 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  • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  class H fuse clips  operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  yes  type of start push button  Yes  type of start push button  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  temperature of the conductor for supply  AL or CU  |   |   |
| according to UL insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  100 V  • with multi-phase operation at AC rated value  100 V  Disconnect Switch  response value of switch disconnector  design of fuse holder  class H fuse clips operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Veather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  type of start push button  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU  |   |   |
| 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  Enclosure  degree of protection NEMA rating of the enclosure     design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     type of start push button  Mounting/wiring  mounting position     type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply  AL or CU  300 V  400 Elips  400 For outdoor use  Surface mounting with matte finish  400 For outdoor use  400 For outd      |   | 5A@600VAC (B600), 1A@250VDC (R300)      |
| 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     Class H fuse clips     operating class of the fuse link     Class H, K and R  Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     yes     type of start push button     Mounting/wiring     mounting position     fastening method     type of electrical connection for supply voltage line-side     tightening torque [lbf-in] for supply     1x (14 2 AWG)     at AWG cables single or multi-stranded     temperature of the conductor for supply maximum     permissible     material of the conductor for supply     AL or CU  | 3 ( )   |   |
| Pisconnect Switch response value of switch disconnector design of fuse holder Oclass H fuse clips operating class of the fuse link Class H, K and R  Enclosure degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosure Meather proof for outdoor use  Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch yes type of Hand-Off-Auto selector switch yes type of start push button Yes type of start push button  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 at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply AL or CU   |   |   |
| response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class H, K and R  Enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Weather proof for outdoor use  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  yes  type of start push button  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 at AWG cables single or multi-stranded  temperature of the conductor for supply  material of the conductor for supply  AL or CU  |   | 300 V                                   |
| design of fuse holder operating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch yes type of start push button type of start push button  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 for supply maximum permissible material of the conductor for supply  Make Type 3R Weather proof for outdoor use  NEMA Type 3R Weather proof for outdoor use  Yes  10   | Disconnect Switch   |   |
| operating class of the fuse link  Enclosure  degree of protection NEMA rating of the enclosure     design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     yes     type of start push button     yes     type of start push button  Mounting/wiring  mounting position     fastening method     type of electrical connection for supply voltage line-side     itghtening torque [lbf-in] for supply     type of connectable conductor cross-sections at line-side     at AWG cables single or multi-stranded     temperature of the conductor for supply maximum     permissible  material of the conductor for supply  AL or CU   |   |   |
| degree of protection NEMA rating of the enclosure design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch yes type of Hand-Off-Auto selector switch yes type of start push button type of start push button  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 at AWG cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply  MEMA Type 3R  Weather proof for outdoor use  Summ Testal  Yes  30mm metal housing with matte finish  Yes  10 yertical Surface mounting and installation  Box lug  35 35 lbf-in  1x (14 2 AWG)  Tx (14 2 AWG)  AL or CU   |   | ·                                       |
| degree of protection NEMA rating of the enclosure design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button  type of start push button  Weather proof for outdoor use  Samm metal housing with matte finish  product component start push button  type of start push button  Mounting/wiring  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 at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible material of the conductor for supply  AL or CU   |   | Class H, K and R                        |
| design of the housing  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  product component start push button  type of start push button  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 at AWG cables single or multi-stranded  material of the conductor for supply  Meather proof for outdoor use  Yes  30mm metal housing with matte finish  Vertical  Surface mounting and installation  Box lug  1x (14 2 AWG)  Tx (14 2 AWG)  AL or CU  | Enclosure   |   |
| product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button  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 at AWG cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply  AL or CU   | degree of protection NEMA rating of the enclosure           | • |
| product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  product component start push button  type of start push button  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 at AWG cables single or multi-stranded  temperature of the conductor for supply  material of the conductor for supply  AL or CU   | design of the housing                                       | Weather proof for outdoor use           |
| type of Hand-Off-Auto selector switch product component start push button type of start push button  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 at AWG cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply  AL or CU   | Standard Control Devices                                    |   |
| product component start push button  type of start push button  30mm metal housing with matte finish  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  at AWG cables single or multi-stranded  temperature of the conductor for supply  material of the conductor for supply  AL or CU  | product component Hand-Off-Auto selector switch             | Yes                                     |
| type of start push button  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 at AWG cables single or multi-stranded  temperature of the conductor for supply  material of the conductor for supply  AL or CU  | type of Hand-Off-Auto selector switch                       | 30mm metal housing with matte finish    |
| Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       35 35 lbf-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (14 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU   | product component start push button                         | Yes                                     |
| 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 at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply  AL or CU   | type of start push button                                   | 30mm metal housing with matte finish    |
| 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 at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  Surface mounting and installation  Box lug  1x (14 2 AWG)  75 °C  AL or CU   | 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 at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU  | mounting position   | Vertical                                |
| tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU   | fastening method  | Surface mounting and installation       |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU  | type of electrical connection for supply voltage line-side  | Box lug                                 |
| at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU  | tightening torque [lbf·in] for supply                       | 35 35 lbf·in                            |
| permissible material of the conductor for supply  AL or CU   |   | 1x (14 2 AWG)                           |
|  |   | 75 °C                                   |
| type of electrical connection for load-side outgoing feeder Screw-type terminals   | material of the conductor for supply                        | AL or CU                                |
|  | type of electrical connection for load-side outgoing feeder | Screw-type terminals                    |

| tightening torque [lbf·in] for load-side outgoing feeder   | 35 35 lbf·in  |
|--|---|
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded            | 1x (14 2 AWG)                                       |
| temperature of the conductor for load-side outgoing feeder maximum permissible   | 75 °C   |
| material of the conductor for load-side outgoing feeder  | AL or CU  |
| type of electrical connection of magnet coil   | Screw-type terminals                                |
| tightening torque [lbf·in] at magnet coil  | 5 12 lbf·in   |
| type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded                           | 2x (16 12 AWG)                                      |
| temperature of the conductor at magnet coil maximum permissible  | 75 °C   |
| material of the conductor at magnet coil   | CU  |
| type of electrical connection at contactor for auxiliary contacts  | Screw-type terminals                                |
| tightening torque [lbf·in] at contactor for auxiliary contacts   | 10 15 lbf·in  |
| type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded      | 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)         |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible   | 75 °C   |
| material of the conductor at contactor for auxiliary contacts  | CU  |
| type of electrical connection at overload relay for auxiliary contacts   | Screw-type terminals                                |
| tightening torque [lbf·in] at overload relay for auxiliary contacts  | 7 10 lbf·in   |
| type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded | 2x (20 14 AWG)                                      |
| temperature of the conductor at overload relay for auxiliary contacts maximum permissible                                    | 75 °C   |
| material of the conductor at overload relay for auxiliary contacts   | CU  |
| Short-circuit current rating   |   |
| design of the fuse link for short-circuit protection of the main circuit required  | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| certificate of suitability   | NEMA ICS 2; UL 508                                  |
| Further information  |   |
| Industrial Controls - Burdout Consulation (Catalana - Burdou   |   |

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87DUC6LJ

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

https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6LJ

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=US2:87DUC6LJ&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUC6LJ&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6LJ/certificate

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