SIEMENS

Data sheet

3LD5620-0TL13

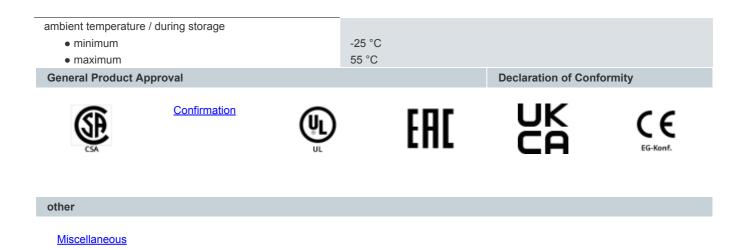


SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 125A, SCCR 65kA at 480VAC, Operating power at 480VAC 3-phase: 75hp, IEC: 125A, Operating power at AC-23A at 400V: 55kW, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, incl. terminal covers for the infeed side

| Model | | |
|---|--|--|
| product brand name | SENTRON | |
| product designation | 3LD UL switch disconnector | |
| design of the product | EMERGENCY-STOP switch | |
| display version / for switch position indicator manual operation | 1 ON - 0 OFF | |
| type of switch | front mounted | |
| design of the actuating element | selector switch | |
| color / of the actuating element | red | |
| design of handle | rotary operating mechanism, red/yellow | |
| type of the driving mechanism / motor drive | No | |
| General technical data | | |
| number of poles | 4 | |
| size of switch disconnector | 3 | |
| mechanical service life (switching cycles) / typical | 100 000 | |
| electrical endurance (switching cycles) | | |
| • at AC-23 A / at 690 V | 6 000 | |
| operating frequency / maximum | 50 1/h | |
| degree of pollution | 3 | |
| Voltage | | |
| insulation voltage / rated value | 690 V | |
| surge voltage resistance / rated value | 6 kV | |
| Protection class | | |
| protection class IP | IP65 | |
| degree of protection NEMA rating | 1, 3R, 4X, 12 | |
| protection class IP / on the front | IP65 | |
| Dissipation | | |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 36 W | |
| Current | | |
| operational current / rated value | 125 A | |
| operational current | | |
| at 40 °C / rated value | 125 A | |
| at 45 °C / rated value | 125 A | |
| at 50 °C / rated value | 125 A | |
| • at 55 °C / rated value | 125 A | |
| at AC / rated value | 125 A | |
| | | |
| Main circuit | | |

| at AC-21 / at 690 V / rated value | 125 A |
|---|--|
| • at AC-21 A / at 240 V / rated value | 125 A |
| at AC-21 A / at 400 V / rated value | 125 A |
| at AC-21 A / at 440 V / rated value | 125 A |
| • at AC-23 A / at 400 V / rated value | 125 A |
| operating power | |
| at AC-23 A / at 240 V / rated value | 37 kW |
| at AC-23 A / at 440 V / rated value | 55 kW |
| at AC-23 A / at 690 V / rated value | 45 kW |
| at AC-3 / at 240 V / rated value | 37 kW |
| at AC-3 / at 400 V / rated value | 55 kW |
| at AC-3 / at 690 V / rated value | 37 kW |
| Auxiliary circuit | |
| number of CO contacts / for auxiliary contacts | 0 |
| number of NC contacts / for auxiliary contacts | 0 |
| number of NO contacts / for auxiliary contacts | 0 |
| operating voltage / of auxiliary contacts / at AC / maximum | 500 V |
| continuous current / of the auxiliary contact / rated value | 10 A |
| insulation voltage / of the auxiliary switch / rated value | 500 V |
| Suitability | |
| | |
| suitability for use | Voo |
| main switch | Yes |
| switch disconnector | Yes |
| EMERGENCY OFF switch | Yes |
| safety switch | Yes |
| maintenance/repair switch | Yes |
| Product details | |
| product feature / can be locked into OFF position | Yes |
| accessories | |
| product extension / optional | |
| | |
| motor drive | No |
| motor drivevoltage trigger | No No |
| voltage trigger number of connectable NC contacts / for auxiliary contacts | |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum | No 2 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts | No |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum | No 2 2 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts | No 2 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum | No 2 2 0 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum | No 2 2 0 3 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks | No 2 2 0 |
| • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit | No 2 2 0 3 |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks | No 2 2 0 3 |
| • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection | No 2 2 0 3 5 7.5 mm |
| • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value | No 2 2 0 3 5 7.5 mm 50 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value | No 2 2 0 3 5 7.5 mm |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection | No 2 2 0 3 5 7.5 mm 50 kA 50 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection | No 2 2 0 3 5 7.5 mm 50 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / | No 2 2 0 3 5 7.5 mm 50 kA 50 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum | No 2 2 0 3 5 7.5 mm 50 kA 50 kA 50 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 0 3 5 7.5 mm 50 kA 50 kA 50 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 0 3 5 7.5 mm 50 kA 50 kA 16 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 2 0 3 5 7.5 mm 50 kA 50 kA 16 kA 16 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 0 3 5 7.5 mm 50 kA 50 kA 16 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 2 0 3 5 7.5 mm 50 kA 50 kA 16 kA 16 kA 16 kA |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 240 V / for combination switch + gG fuse / maximum at 240 V / for combination switch + gG fuse / maximum | No 2 2 0 3 57.5 mm 50 kA 50 kA 50 kA 16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 640 V / for combination switch + gG fuse / maximum at 640 V / for combination switch + gG fuse / maximum at 640 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum | No 2 2 0 3 5 7.5 mm 50 kA 50 kA 16 kA 16 kA 16 kA 15 kA 223 kA2.s |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 240 V / for combination switch + gG fuse / maximum | No 2 2 0 3 57.5 mm 50 kA 50 kA 50 kA 16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum | No 2 2 0 3 57.5 mm 50 kA 50 kA 16 kA 16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s 223 kA2.s |
| voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 240 V / for combination switch + gG fuse / maximum | No 2 2 0 3 57.5 mm 50 kA 50 kA 50 kA 16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s |

| | free at (a O) 40 A |
|---|---|
| for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 10 A |
| operational current / of upstream fuse / rated value | 125 A |
| according UL | |
| operational current / at AC / according to UL 489/UL 60947-4-1 / rated value | 125 A |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value | 125 A |
| operating voltage / at AC / at 50/60 Hz / according to UL 489 / rated value | 480 V |
| operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value | 480 V |
| active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value | 75 |
| short-time withstand current (SCCR) / at 480 V / according to UL 508/UL 60947-4-1 and UL 489 | 65 kA |
| continuous current / of upstream fuse / according to UL / rated value | 125 A |
| type of fuse / according to UL | Class J |
| Connections | |
| AWG number / as coded connectable conductor cross section / solid | |
| • minimum | 1 |
| maximum | 4/0 |
| AWG number / as coded connectable conductor cross section / solid / according to UL 489 | |
| • minimum | 1 |
| • maximum | 4/0 |
| AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16 | |
| • minimum | 3 |
| • maximum | 2/0 |
| type of connectable conductor cross-sections / for copper conductor | |
| solid | 1x (16185mm²) |
| finely stranded / with core end processing | 1x (16150mm²) |
| stranded | 1x (16185mm²) |
| type of connectable conductor cross-sections / for auxiliary contacts | |
| • solid | lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary |
| • finely stranded / with core end processing | switch 1x (0,75 2,5mm ²) lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary |
| • stranded | switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²) |
| type of electrical connection | |
| for main current circuit | box terminal |
| for auxiliary contacts | connection terminals |
| Mechanical Design | |
| height | 178 mm |
| width | 151 mm |
| depth | 93 mm |
| type of device | fixed mounting |
| fastening method | Built-in unit fixed-mounted version |
| fastening method | |
| • 4-hole front mounting | Yes |
| front mounting with central attachment | No |
| rail mounting | No 2 150 a |
| net weight | 2 150 g |
| Environmental conditions | |
| ambient temperature / during operation minimum | -25 °C |
| | -25°C |
| • maximum | JJ U |



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD5620-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5620-0TL13

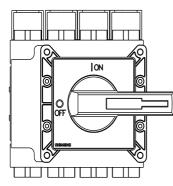
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

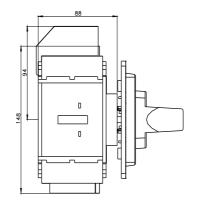
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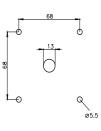
CAx-Online-Generator

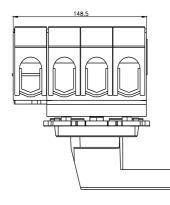
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