SIEMENS

Data sheet

3LD3054-0TK51



Load disconnector 3LD3, lu 16 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 7.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotating drive black 66 x 66 mm

| Model | |
|--|-----------------------------------|
| product brand name | SENTRON |
| product designation | 3LD Switch disconnector |
| design of the product | Main switch |
| display version / for switch position indicator manual operation | 1 ON - 0 OFF |
| design of the actuating element | Short rotary knob |
| design of handle | rotary operating mechanism, black |
| type of the driving mechanism / motor drive | No |
| General technical data | |
| number of poles | 3 |
| number of poles / note | 3 |
| type of device | fixed mounting |
| type of switch | front mounted |
| mechanical service life (switching cycles) / typical | 100 000 |
| electrical endurance (switching cycles) | |
| • at AC-23 A / at 690 V | 6 000 |
| I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 3 kA2.s |
| let-through l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 2.5 kA2.s |
| operating frequency / maximum | 50 1/h |
| 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 | 0.5 W |
| per conductor / typical | 1 W |
| Current | |
| operational current | |
| • at 40 °C / rated value | 16 A |
| • at 45 °C / rated value | 16 A |
| • at 50 °C / rated value | 16 A |
| • at 55 °C / rated value | 16 A |

| at AC / rated value | 16 A |
|---|--|
| • at AC-23 A / at 400 V / rated value | 16 A |
| • at AC-21 / at 690 V / rated value | 16 A |
| • at AC-21 A / at 240 V / rated value | 16 A |
| at AC-21 A / at 440 V / rated value | 16 A |
| operational current / of upstream fuse / rated value | 16 A |
| let-through current / with closed switch | |
| at 440 V / for combination switch + gG fuse / maximum | 3 kA |
| maximum $a_{\rm rat} = 600 \text{ V} / \text{for combination switch} + aC fuel /$ | 2 4 4 |
| at 690 V / for combination switch + gG fuse / maximum permissible | 3 kA |
| Main circuit | |
| operating power | |
| at AC-23 A / at 240 V / rated value | 3 kW |
| • at AC-23 A / at 400 V / rated value | 8 kW |
| • at AC-23 A / at 440 V / rated value | 7.5 kW |
| • at AC-23 A / at 690 V / rated value | 8 kW |
| • at AC-3 / at 240 V / rated value | 3 kW |
| • at AC-3 / at 400 V / rated value | 6 kW |
| • at AC-3 / at 400 V / rated value | 5.5 kW |
| operational current / rated value | 16 A |
| Auxiliary circuit | |
| | 0 |
| number of CO contacts / for auxiliary contacts 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 contacts / at AC / maximum | 10 A |
| insulation voltage / of the auxiliary switch / rated value | 500 V |
| Suitability | 300 V |
| suitability for use | |
| main switch | Yes |
| switch disconnector | Yes |
| EMERGENCY OFF switch | No |
| | Yes |
| safety switch maintenance/repair switch | Yes |
| · · | |
| Appearance | black |
| color / of the actuating element | DIACK |
| Product details | |
| product feature | N |
| can be locked into OFF position | Yes |
| number of bracket locks / maximum | 3 |
| hasp thickness / of the bracket locks / minimum | 4 mm |
| hasp thickness / of the bracket locks / maximum | 8 mm |
| special product feature | Can be locked in zero position |
| | |
| product extension / optional | |
| product extension / optional • motor drive | No |
| product extension / optional • motor drive • voltage trigger | |
| product extension / optional • motor drive • voltage trigger Short circuit | No |
| product extension / optional • motor drive • voltage trigger | No |
| product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value | No No 10 kA |
| product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection | No No |
| product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value | No No 10 kA |
| product extension / optional • motor drive • voltage trigger 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 No 10 kA |
| product extension / optional • motor drive • voltage trigger 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 according UL operational current / at AC / according to UL 508/UL | No No 10 kA 6 kA |
| product extension / optional • motor drive • voltage trigger 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 according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL | No No 10 kA 6 kA 16 A |
| product extension / optional • motor drive • voltage trigger 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 according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL | No No 10 kA 6 kA 16 A 600 V |

| Confirmation | EUL CE AR |
|---|--|
| General Product Approval | Declaration of Conformity |
| ambient temperature / during storage / minimum | -25 °C |
| • maximum | 55 °C |
| • minimum | -25 °C |
| ambient temperature / during operation | |
| Environmental conditions | |
| net weight | 200 g |
| rail mounting | No |
| 4-hole front mounting front mounting with central attachment | No Yes |
| fastening method | No |
| fastening method | Built-in unit fixed-mounted version |
| depth | 114 mm |
| width | 36 mm |
| height | 60 mm |
| Mechanical Design | |
| • for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 10 A |
| for short-circuit protection of the main circuit / required | fuse gL/gG: 20 A |
| design of the fuse link | |
| Requirements | |
| for auxiliary contacts | Box terminals |
| for main current circuit | box terminal |
| stranded type of electrical connection | 2x (0.75 2.5 mm²), 1x 4 mm² |
| finely stranded / with core end processing stranded | 2x (0.75 1.5 mm ²), 1x 2.5 mm ² |
| • solid | 2x (0.75 2.5 mm ²), 1x 4 mm ² |
| type of connectable conductor cross-sections / for auxiliary contacts | |
| • stranded | 1x (2.5 to 16 mm ²) |
| finely stranded / with core end processing | 1x (2.516 mm ²) |
| • solid | 1x (2.5 to 16 mm ²) |
| type of connectable conductor cross-sections / for copper conductor | |
| • minimum | 14 |
| AWG number / as coded connectable conductor cross section / solid • maximum | 6 |
| Connections | |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum | 0 |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum | 4 |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum | 2 |
| Number | |
| type of fuse / according to UL | RK5 |
| continuous current / of upstream fuse / according to UL / rated value | 50 A |
| | 50.4 |

other

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=3LD3054-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3054-0TK51

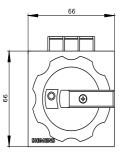
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3054-0TK51

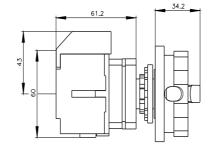
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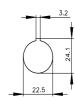
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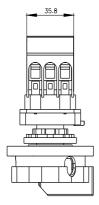
Tender specifications

http://www.siemens.com/specifications









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