SIEMENS

Data sheet 3LD2013-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Switch disconnector |
| design of the product | EMERGENCY-STOP switch |
| display version for switch position indicator manual operation | 1 ON - 0 OFF |
| type of switch | Floor mounting with door coupling |
| design of the actuating element | Short rotary knob |
| 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 | 3 |
| size of switch disconnector | 1 |
| mechanical service life (operating cycles) typical | 100 000 |
| electrical endurance (operating 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 |
| operating voltage | |
| at AC rated value | 690 V |
| operating frequency rated value | |
| • minimum | 50 Hz |
| • maximum | 60 Hz |
| 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 |
| Main circuit | |
| operational current | |
| • 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 400 V rated value | 16 A |
| • at AC-21 A at 440 V rated value | 16 A |

| operating power at AC-22 A at 400 V rated value at AC-23 A at 400 V rated value at AC-3 at 240 V rated value at AC-3 at 240 V rated value at AC-3 at 240 V rated value by at AC-3 at 240 V rated value at AC-3 at 250 V rated value by at AC-3 at 250 V rated value controlled for auxiliary contacts comber of IOC contacts for auxiliary contacts comberation votage of the auxiliary contacts comberation votage of the auxiliary contacts continuous current of the auxiliary contact rated value builbuility for use exited disconnector ves suitability for use exited disconnector ves suitability for use EMERGENOY OFF switch ves product extension optional an optional and optional an | at AC-23 A at 400 V rated value | 16 A |
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| * al AC 23 A at 4600 V raded value | | 4 kW |
| * at AC-23 A at 400 V rated value | | |
| * at AC-23 at 280 V rated value | | |
| and AC-3 at 240 V rated value bit AC-3 at 400 V rated value can AC-3 at 400 V rated value bit AC-3 at 400 V rated value bit Automaty circuit commer of CC contacts for auxiliary contacts concentrate of NC contacts for auxiliary contacts concentrate of NC contacts for auxiliary contacts concentrate value concentrate of AC-3 auxiliary contacts concentrate value concentrate value concentrate of NC contacts of auxiliary contact at AC-3 auxiliary contact auxiliary contact at AC-3 auxiliary contact auxiliary contac | | |
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| suitability for use switch disconnector suitability for use safety switch yes suitability for use maintenance/repair switch Product details pr | | V |
| suitability for use Safety switch ves suitability for use safety switch ves suitability for use maintenanceropair switch ves product details product feature can be locked into OFF position **Occasiones** **Product extension optional** **motor drive** **ovitage trigger** **No **number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum **number of connectable NO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum number of bracket locks maximum **No to | | |
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| design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required fuse gL/gG: 20 A • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 20 A 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 10 | _ | 2.5 kA2.s |
| • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | ■ at 690 V for combination switch + gG fuse maximum | 3 kA2.s |
| for short-circuit protection of the auxiliary switch required operational current of upstream 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | design of the fuse link | |
| operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 16 A 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value | | * * |
| 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | i | |
| 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | <u> </u> | 20 A |
| 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 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | | |
| active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | | 16 A |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 | | 600 V |
| 60947-4-1 rated value | | 7.5 |
| short-time withstand current (SCCR) at 600 V according to 5 kA | 60947-4-1 rated value | 10 |
| | short-time withstand current (SCCR) at 600 V according to | 5 kA |

| continuous current of upstream fuse according to UL rated value Type of lose according to UL AWG number as coded connectable conductor cross section solid maximum • 10 • 18 type of connectable conductor cross-sections for copper conductor • solid | UL 508/UL 60947-4-1 | |
|--|--|-------------------------------------|
| value RKS Ownerctions AWG number as coded connectable conductor cross section solid maximum 10 • 10 18 type of connectable conductor cross-sections for copper conductor 1x (16mm²) • solid 1x (16mm²) • finely stranded with core end processing 1x (16mm²) • stranded 1x (16mm²) • solid 1x (16mm²) • finely stranded with core end processing 1 lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm², front auxiliary switch 1x (0,752,5mm²) • finely stranded with core end processing 1 lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm², front auxiliary switch 1x (0,752,5mm²) • finely stranded with core end processing 1 lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm², front auxiliary switch 1x (0,752,5mm²) • for main current circuit 50 x 4mm² • for main current circuit 60 x 4mm² • for auxiliary contacts 84 m • for main current circuit 67 mm • for auxiliary contacts <t< td=""><td></td><td>50 A</td></t<> | | 50 A |
| AWG number as coded connectable conductor cross section solid maximum | | • |
| AWG number as coded connectable conductor cross section solid maximum Type of connectable conductor cross-sections for copper conductor cross-sections for auxiliary contacts Tx (14mm²) | type of fuse according to UL | RK5 |
| section solid maximum | Connections | |
| type of connectable conductor cross-sections for copper conductor - solid - finely stranded with core end processing - stranded - type of connectable conductor cross-sections for auxiliary contacts - solid - solid - solid - type of connectable conductor cross-sections for auxiliary contacts - solid - | | |
| type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing sitranded type of connectable conductor cross-sections for auxiliary contacts stranded | • | 10 |
| condid 1x (16mm²) 6 filely stranded with core end processing 1x (14mm²) 6 stranded 1x (16mm²) type of connectable conductor cross-sections for auxillary contacts lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) 6 finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm², front auxiliary switch 1x 2,5mm² 6 stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² 6 stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² 6 stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² 6 stranded onnection terminal 6 for auxiliary contacts connection terminals 8 depth 94 mm width 67 mm 4 depth 429 s mm 4 per of device fixed mounting 6 stenning method fixed mounting 6 stenning method 94 hole front mounting with central attachment No 6 roal mounting 9cs entweight 40 hole front mounting 9cs < | • | 18 |
| • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid solid finely stranded with core end processing • finely stranded with core end processing • stranded interest auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded interest auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm², front auxiliary switch 1x 2,5mm² c,5mm² • stranded interest auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x 2,5mm² c,5mm² • for main current circuit • for auxiliary contacts • for auxiliary contacts onnection terminals ################################### | 71 | |
| type of connectable conductor cross-sections for auxiliary contacts solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm², front auxiliary switch 1x 2,5mm² stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm², front auxiliary switch 1x 2,5mm² cype of electrical connection for auxiliary contacts box terminal for auxiliary contacts connection effor auxiliary contacts connection terminals widehanical Design height 84 mm width 67 mm depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method fastening with central attachment No rail mounting with central attachment No rail mounting with central attachment Yes net weight 410 g environmental conditions ambient temperature during operation maximum 55 °C ambient temperature during storage minimum -25 °C | • solid | 1x (16mm²) |
| type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded • stranded • stranded • for electrical connection • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for minimum • for minimum • | finely stranded with core end processing | 1x (14mm²) |
| e solid lateral auxilliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x 2,5mm² stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²), 1x 4mm²; front auxiliary sw | stranded | 1x (16mm²) |
| • finely stranded with core end processing • stranded • stranded • stranded • stranded • stranded • stranded type of electrical connection • for main current circuit • for auxiliary contacts for main current circuit • for auxiliary contacts ### Auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) ### Auxiliary contacts ### Auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) ### Auxiliary switch 1x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) ### Auxiliary switch 1x (0,75 2,5mm²), 1x | | |
| • stranded • stranded • stranded • stranded • stranded type of electrical connection • for main current circuit • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main current circuit • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for maxinum • for main current circuit • box terminal • box terminals • connection terminals • at mm • for mm • for mm • depth • 429.5 mm • from the depth • 429.5 mm • fixed mounting • front mounting with central attachment • rail mounting with central attachment • minimum • minimum • c25 °C • maximum • minimum • c25 °C • minimum • minimum • c25 °C | • solid | |
| type of electrical connection | finely stranded with core end processing | |
| • for main current circuit • for auxiliary contacts connection terminals Mechanical Design height 84 mm width 67 mm depth 429.5 mm type of device fixed mounting fastening method 4-hole front mounting • front mounting with central attachment • rail mounting net weight anbient temperature during operation • minimum • 55 °C ambient temperature during storage • minimum • minimum • -25 °C ambient temperature during storage • minimum • -25 °C | • stranded | |
| • for auxiliary contacts Mechanical Design height 84 mm width 67 mm depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight 410 g Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • minimum • -25 °C ambient temperature during storage • minimum • -25 °C | type of electrical connection | |
| height 84 mm width 67 mm depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes • 4-hole front mounting Yes • front mounting with central attachment No • rail mounting Yes net weight 410 g Environmental conditions ambient temperature during operation • minimum • maximum 55°C ambient temperature during storage • minimum • 25°C | for main current circuit | box terminal |
| height 84 mm width 67 mm depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes • 4-hole front mounting Yes • front mounting with central attachment No • rail mounting Yes net weight 410 g Environmental conditions ambient temperature during operation -25 °C • maximum 55 °C ambient temperature during storage -25 °C • minimum -25 °C | for auxiliary contacts | connection terminals |
| width 67 mm depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version e 4-hole front mounting Yes e front mounting with central attachment No e rail mounting Yes net weight 410 g Environmental conditions ambient temperature during operation e minimum e maximum 555 °C ambient temperature during storage e minimum -25 °C | Mechanical Design | |
| depth 429.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version • 4-hole front mounting Yes • front mounting with central attachment No • rail mounting Yes net weight 410 g Environmental conditions ambient temperature during operation -25 °C • maximum 55 °C ambient temperature during storage -25 °C | height | 84 mm |
| fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • minimum • minimum • minimum • 55 °C ambient temperature during storage • minimum • minimum • -25 °C | width | 67 mm |
| fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight in with temperature during operation • maximum • maximum • minimum • minimum • minimum • -25 °C ambient temperature during storage • minimum • minimum • -25 °C | depth | 429.5 mm |
| fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum 55°C ambient temperature during storage • minimum -25°C | type of device | fixed mounting |
| 4-hole front mounting front mounting with central attachment rail mounting Yes net weight Alo g Environmental conditions ambient temperature during operation minimum -25 °C ambient temperature during storage minimum -25 °C | fastening method | Built-in unit fixed-mounted version |
| • front mounting with central attachment • rail mounting Yes net weight 410 g Environmental conditions ambient temperature during operation • minimum | fastening method | |
| • rail mounting Personal Material Mater | 4-hole front mounting | Yes |
| net weight Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C | front mounting with central attachment | No |
| ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C | rail mounting | Yes |
| ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C | net weight | 410 g |
| minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C | Environmental conditions | |
| ● maximum 55 °C ambient temperature during storage • minimum -25 °C | ambient temperature during operation | |
| ambient temperature during storage ● minimum -25 °C | • minimum | -25 °C |
| • minimum -25 °C | • maximum | 55 °C |
| | ambient temperature during storage | |
| • maximum 55 °C | • minimum | -25 °C |
| | • maximum | 55 °C |
| Approvals Certificates | Approvals Certificates | |

General Product Approval







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Confirmation

Miscellaneous

Environment

Environmental Confirmations

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3LD2013-0TK53

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2013-0TK53

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3LD2013-0TK53

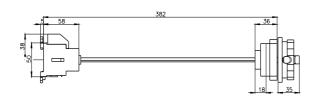
CAx-Online-Generator

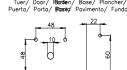
http://www.siemens.com/cax

Tender specifications

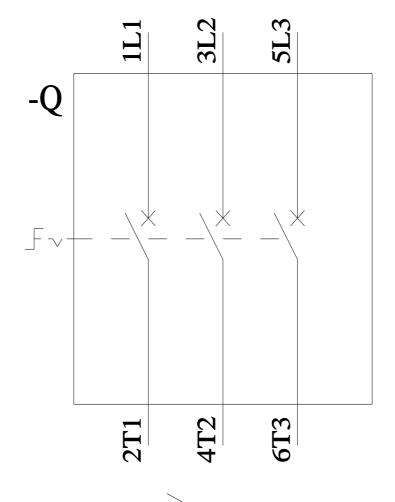
http://www.siemens.com/specifications

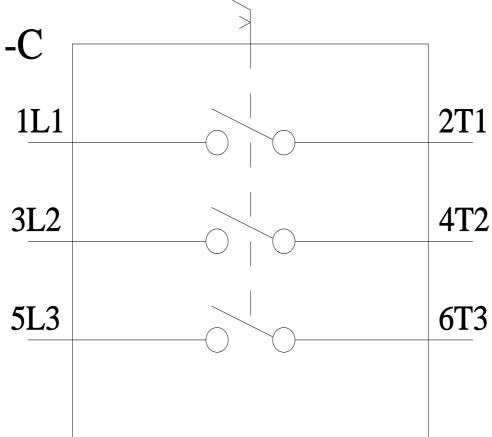












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