

SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 30A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 20hp, IEC: 32A, Operating power at AC-23A at 400V: 15kW, floor mounting with door coupling rotary operating mechanism, defeatable, emergency switching-off, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Switch disconnecter |
| 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 | door-coupling rotary operating mechanism |
| 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 disconnecter | 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 | 4.5 W |
| Main circuit | |
| operational current | |
| • at AC-21 at 690 V rated value | 32 A |
| • at AC-21 A at 240 V rated value | 32 A |
| • at AC-21 A at 400 V rated value | 32 A |
| • at AC-21 A at 440 V rated value | 32 A |
| • at AC-23 A at 400 V rated value | 32 A |

| | |
|---|---|
| operating power | |
| <ul style="list-style-type: none"> • at AC-23 A at 240 V rated value • at AC-23 A at 440 V rated value • at AC-23 A at 690 V rated value • at AC-3 at 240 V rated value • at AC-3 at 400 V rated value • at AC-3 at 690 V rated value | <p>7.5 kW</p> <p>15 kW</p> <p>19 kW</p> <p>7.5 kW</p> <p>15 kW</p> <p>15 kW</p> |

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 |

Suitability

| | |
|--|--|
| suitability for use | |
| <ul style="list-style-type: none"> • main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |

Product details

| | |
|---|---------------------------------|
| special product feature | defeatable door-coupling handle |
| product feature can be locked into OFF position | Yes |

accessories

| | |
|--|---------------------|
| product extension optional | |
| <ul style="list-style-type: none"> • motor drive • voltage trigger | <p>No</p> <p>No</p> |
| number of connectable NC contacts for auxiliary contacts attachable maximum | 2 |
| number of connectable NO contacts for auxiliary contacts attachable maximum | 3 |
| number of connectable CO contacts for auxiliary contacts attachable maximum | 0 |
| number of bracket locks maximum | 1 |
| hasp thickness of the bracket locks | 4 ... 6 mm |

Short circuit

| | |
|---|--|
| conditional short-circuit current with line-side fuse protection | |
| <ul style="list-style-type: none"> • at 440 V by gG fuse rated value • at 690 V by gG fuse rated value | <p>50 kA</p> <p>50 kA</p> |
| let-through current with closed switch | |
| <ul style="list-style-type: none"> • 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 permissible | <p>6 kA</p> <p>6 kA</p> <p>6 kA</p> |
| I ² t value with closed switch | |
| <ul style="list-style-type: none"> • 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 | <p>12 kA².s</p> <p>12 kA².s</p> <p>12 kA².s</p> |
| design of the fuse link | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required | <p>Fuse gG: 40 A</p> <p>fuse gL/gG: 10 A</p> |
| operational current of upstream fuse rated value | 40 A |

according UL

| | |
|--|-------|
| operational current at AC according to UL 489/UL 60947-4-1 rated value | 30 A |
| operational current at AC according to UL 508/UL 60947-4-1 rated value | 30 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 | 20 |

| | |
|--|-------------|
| short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489 | 50 kA |
| continuous current of upstream fuse according to UL rated value | 30 A |
| type of fuse according to UL | Class CC, J |

Connections

| | |
|---|--|
| AWG number as coded connectable conductor cross section solid maximum | |
| • | 6 |
| • | 14 |
| AWG number as coded connectable conductor cross section solid according to UL 489 | |
| • minimum | 14 |
| • maximum | 6 |
| AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 | |
| • minimum | 12 |
| • maximum | 8 |
| type of connectable conductor cross-sections for copper conductor | |
| • solid | 1x (2,5...35mm ²) |
| • finely stranded with core end processing | 1x (2,5...16 mm ²) |
| • stranded | 1x (2,5..35mm ²) |
| type of connectable conductor cross-sections for auxiliary contacts | |
| • solid | lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) |
| • finely stranded with core end processing | lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² |
| • stranded | 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 | 96 mm |
| width | 80 mm |
| depth | 77 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 | Yes |
| net weight | 600 g |

Environmental conditions

| | |
|--------------------------------------|--------|
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 55 °C |
| ambient temperature during storage | |
| • minimum | -25 °C |
| • maximum | 55 °C |

Approvals Certificates

General Product Approval



[Confirmation](#)



| | |
|-------|-------------|
| other | Environment |
|-------|-------------|

[Confirmation](#)

[Miscellaneous](#)

[Environmental Con-
firmations](#)

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=3LD5010-0TL13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5010-0TL13>

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

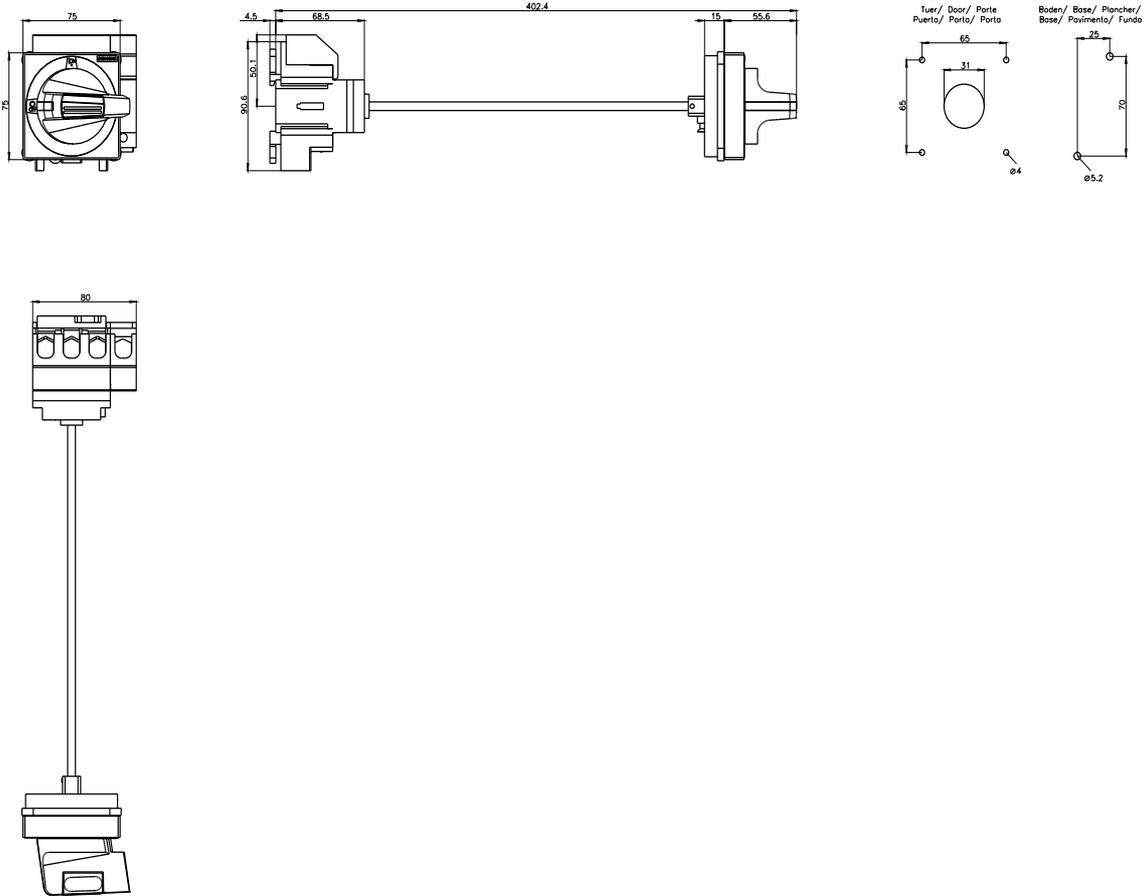
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5010-0TL13

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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