



SENTRON 3LD5 switch disconnector UL, main switch, 3-pole, approved according to UL 489, UL 60947-4-1 and IEC 60947-3, UL: 60 A, SCCR 50 kA at 480 V AC, operational power @ 480 V AC 3-phase: 40 hp, IEC: 63 A, operational power at AC-23 A at 400 V: 30 kW, floor mounting with direct operating mechanism, black including terminal covers for the infeed side for the infeed side

| Model   |                                  |
|---|----------------------------------|
| product brand name  | SENTRON                          |
| product designation   | Switch disconnector              |
| design of the product   | Main switch                      |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                     |
| type of switch  | Floor mounting with direct drive |
| design of the actuating element   | selector switch                  |
| color of the actuating element  | black                            |
| design of handle  | knob-operated mechanism, black   |
| type of the driving mechanism motor drive   | No                               |
| General technical data  |                                  |
| number of poles   | 3                                |
| size of switch disconnector   | 2                                |
| 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   | IP00                             |
| protection class IP on the front  | IP00                             |
| Dissipation   |                                  |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 7.5 W                            |
| Main circuit  |                                  |
| operational current   |                                  |
| • at AC-21 at 690 V rated value   | 63 A                             |
| • at AC-21 A at 240 V rated value   | 63 A                             |
| • at AC-21 A at 400 V rated value   | 63 A                             |
| • at AC-21 A at 440 V rated value   | 63 A                             |

|  |                  |
|--|------------------|
| • at AC-23 A at 400 V rated value  | 63 A             |
| <b>operating power</b>   |                  |
| • at AC-23 A at 240 V rated value  | 18.5 kW          |
| • at AC-23 A at 400 V rated value  | 30 kW            |
| • at AC-23 A at 440 V rated value  | 30 kW            |
| • at AC-23 A at 690 V rated value  | 37 kW            |
| • at AC-3 at 240 V rated value   | 18.5 kW          |
| • at AC-3 at 400 V rated value   | 30 kW            |
| • at AC-3 at 690 V rated value   | 30 kW            |
| <b>Auxiliary circuit</b>   |                  |
| number of CO contacts for auxiliary contacts                                       | 0                |
| <b>number of NC contacts for auxiliary contacts</b>                                | 0                |
| <b>number of NO contacts for auxiliary contacts</b>                                | 0                |
| <b>operating voltage of auxiliary contacts at AC maximum</b>                       | 500 V            |
| <b>continuous current of the auxiliary contact rated value</b>                     | 10 A             |
| insulation voltage of the auxiliary switch rated value                             | 500 V            |
| <b>Suitability</b>   |                  |
| <b>suitability for use main switch</b>   | Yes              |
| <b>suitability for use switch disconnector</b>                                     | Yes              |
| <b>suitability for use EMERGENCY OFF switch</b>                                    | No               |
| <b>suitability for use safety switch</b>   | Yes              |
| <b>suitability for use maintenance/repair switch</b>                               | Yes              |
| <b>Product details</b>   |                  |
| <b>product feature can be locked into OFF position</b>                             | Yes              |
| <b>Accessories</b>   |                  |
| <b>product extension optional</b>  |                  |
| • motor drive  | No               |
| • voltage trigger  | No               |
| <b>number of connectable NC contacts for auxiliary contacts attachable maximum</b> | 2                |
| <b>number of connectable NO contacts for auxiliary contacts attachable maximum</b> | 4                |
| <b>number of connectable CO contacts for auxiliary contacts attachable maximum</b> | 0                |
| <b>number of bracket locks maximum</b>   | 1                |
| <b>hasp thickness of the bracket locks</b>   | 4 ... 6 mm       |
| <b>Short circuit</b>   |                  |
| <b>conditional short-circuit current with line-side fuse protection</b>            |                  |
| • at 440 V by gG fuse rated value  | 50 kA            |
| • at 690 V by gG fuse rated value  | 50 kA            |
| <b>let-through current with closed switch</b>                                      |                  |
| • at 240 V for combination switch + gG fuse maximum                                | 8 kA             |
| • at 440 V for combination switch + gG fuse maximum                                | 8 kA             |
| • at 690 V for combination switch + gG fuse maximum permissible                    | 7 kA             |
| <b>I<sub>2t</sub> value with closed switch</b>                                     |                  |
| • at 240 V for combination switch + gG fuse maximum                                | 30 kA2.s         |
| • at 440 V for combination switch + gG fuse maximum                                | 30 kA2.s         |
| • at 690 V for combination switch + gG fuse maximum                                | 24 kA2.s         |
| <b>design of the fuse link</b>   |                  |
| • for short-circuit protection of the main circuit required                        | fuse gL/gG: 63 A |
| • for short-circuit protection of the auxiliary switch required                    | fuse gL/gG: 10 A |
| <b>operational current of upstream fuse rated value</b>                            | 63 A             |
| <b>according UL</b>  |                  |
| <b>operational current at AC according to UL 489/UL 60947-4-1 rated value</b>      | 60 A             |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>      | 60 A             |
| <b>operating voltage at AC at 50/60 Hz according to UL 489 rated value</b>         | 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                 | 30   |
| 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                               | 60 A   |
| type of fuse according to UL  | Class J  |
| <b>Connections</b>  |  |
| AWG number as coded connectable conductor cross section solid maximum                         |  |
| •   | 1  |
| •   | 12   |
| AWG number as coded connectable conductor cross section solid according to UL 489             |  |
| • minimum   | 12   |
| • maximum   | 1  |
| AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 |  |
| • minimum   | 10   |
| • maximum   | 4  |
| type of connectable conductor cross-sections for copper conductor                             |  |
| • solid   | 1x (4...50mm <sup>2</sup> )                                |
| • finely stranded with core end processing  | 1x (4...35mm <sup>2</sup> )                                |
| • stranded  | 1x (4...50mm <sup>2</sup> )                                |
| type of connectable conductor cross-sections for auxiliary contacts                           |  |
| • solid   | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| • finely stranded with core end processing  | 2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> |
| • stranded  | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| type of electrical connection   |  |
| • for main current circuit  | box terminal   |
| • for auxiliary contacts  | connection terminals                                       |
| <b>Mechanical Design</b>  |  |
| height  | 106 mm   |
| width   | 70 mm  |
| depth   | 95 mm  |
| type of device  | fixed mounting   |
| fastening method  | Built-in unit fixed-mounted version                        |
| fastening method  |  |
| • 4-hole front mounting   | No   |
| • front mounting with central attachment  | No   |
| • rail mounting   | Yes  |
| Net Weight  | 423 g  |
| <b>Environmental conditions</b>   |  |
| ambient temperature during operation  |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| ambient temperature during storage  |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| <b>Approvals Certificates</b>   |  |
| Environment   | General Product Approval                                   |

[Environmental Confirmations](#)



**UK  
CA**

**CE**  
EG-Konf.

**UL**  
UL

**EAC**



[Confirmation](#)

#### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD5200-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5200-0TK11>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD5200-0TK11](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5200-0TK11)

CAx-Online-Generator

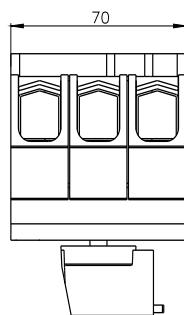
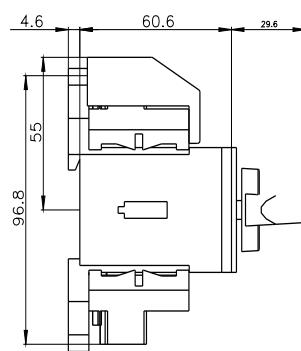
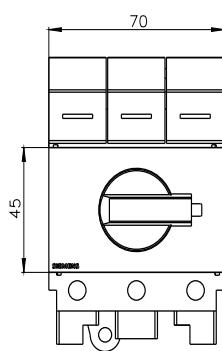
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.samaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.samaris.siemens.com/curves/<mmp_prod_noCOMP=)



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