



SETRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-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 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

Model	
product brand name	SETRON
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	3
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

<ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>	32 A
<b>operating power</b>	
<ul style="list-style-type: none"> <li>• at AC-23 A at 240 V rated value</li> <li>• at AC-23 A at 440 V rated value</li> <li>• at AC-23 A at 690 V rated value</li> <li>• at AC-3 at 240 V rated value</li> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3 at 690 V rated value</li> </ul>	7.5 kW 15 kW 19 kW 7.5 kW 15 kW 15 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 disconnecter</b>	Yes
<b>suitability for use EMERGENCY OFF switch</b>	Yes
<b>suitability for use safety switch</b>	Yes
<b>suitability for use maintenance/repair switch</b>	Yes
<b>Product details</b>	
<b>special product feature</b>	defeatable door-coupling handle
product feature can be locked into OFF position	Yes
<b>accessories</b>	
<b>product extension optional</b>	
<ul style="list-style-type: none"> <li>• motor drive</li> <li>• voltage trigger</li> </ul>	No No
<b>number of connectable NC contacts for auxiliary contacts attachable maximum</b>	3
<b>number of connectable NO contacts for auxiliary contacts attachable maximum</b>	5
<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>	
<ul style="list-style-type: none"> <li>• at 440 V by gG fuse rated value</li> <li>• at 690 V by gG fuse rated value</li> </ul>	50 kA 50 kA
<b>let-through current with closed switch</b>	
<ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	6 kA 6 kA 6 kA
<b>I<sub>2t</sub> value with closed switch</b>	
<ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>	12 kA <sup>2</sup> .s 12 kA <sup>2</sup> .s 12 kA <sup>2</sup> .s
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit required</li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	Fuse gG: 40 A fuse gL/gG: 10 A
<b>operational current of upstream fuse rated value</b>	40 A
<b>according UL</b>	
<b>operational current at AC according to UL 489/UL 60947-4-1 rated value</b>	30 A
<b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>	30 A
<b>operating voltage at AC at 50/60 Hz according to UL 489 rated value</b>	480 V
<b>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</b>	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

<b>AWG number as coded connectable conductor cross section solid maximum</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>	6 14
<b>AWG number as coded connectable conductor cross section solid according to UL 489</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	14 6
<b>AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	12 8
<b>type of connectable conductor cross-sections for copper conductor</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>	1x (2,5...35mm <sup>2</sup> ) 1x (2,5...16 mm <sup>2</sup> ) 1x (2,5...35mm <sup>2</sup> )
<b>type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>	lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <sup>2</sup> ) lateral auxiliary switch 2x (0,75 ... 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup> lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <sup>2</sup> )
type of electrical connection <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>	box terminal connection terminals

#### Mechanical Design

height	96 mm
width	60 mm
depth	77 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
<b>fastening method</b> <ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	Yes No Yes
net weight	520 g

#### Environmental conditions

<b>ambient temperature during operation</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C
<b>ambient temperature during storage</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



other

Environment

### 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=3LD5010-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5010-0TK13>

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

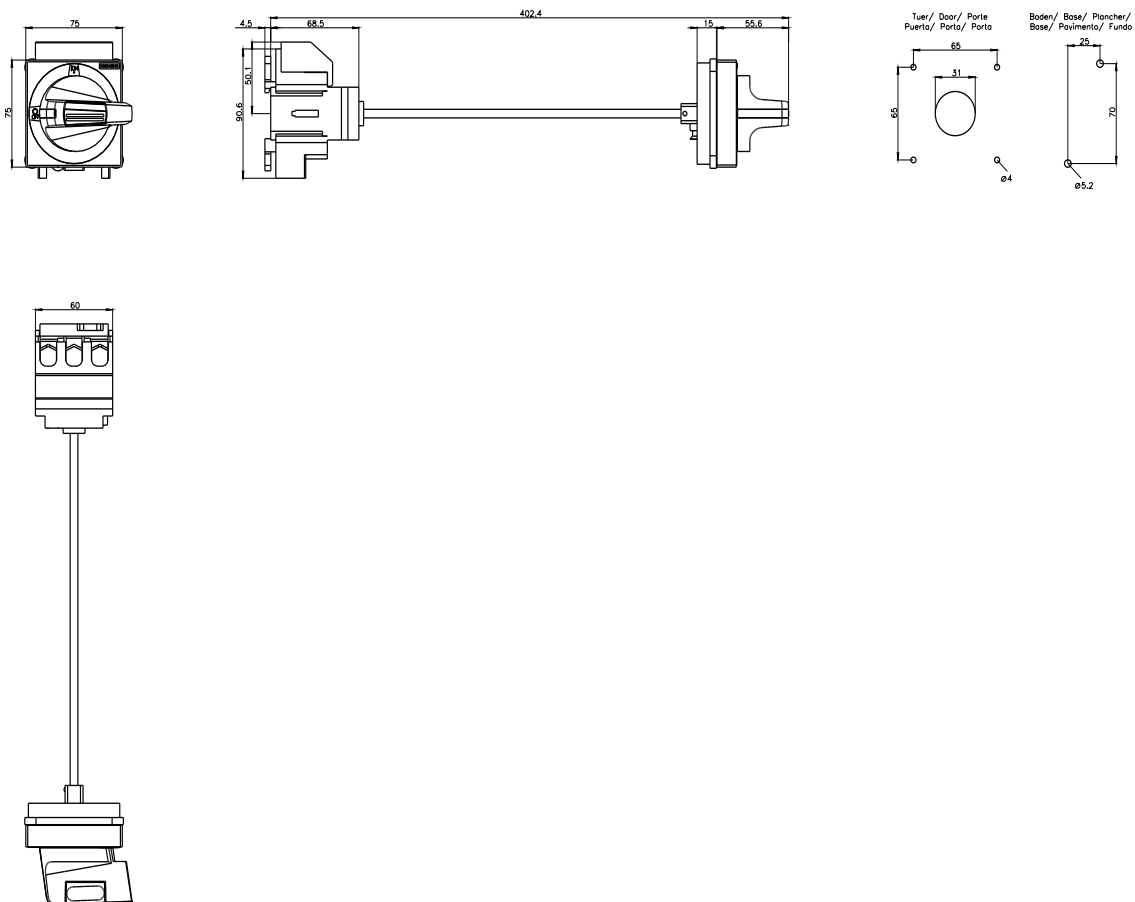
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD5010-0TK13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5010-0TK13)

## CAX-Online-Generator

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

## Tender specifications

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



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