

SENTRON, Switch disconnecter 3LD, DC switch, 2-pole, Iu: 32 A, operating current / at DC- 21 A at 800 V: 32 A, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch



Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	DC switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the actuating element	selector switch
design of handle	knob-operated mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	2
type of device	fixed mounting
type of switch	DIN-rail mounting
size of switch disconnecter	2
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I <sup>2</sup> t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	9 kA <sup>2</sup> .s
let-through I <sup>2</sup> t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	9 kA <sup>2</sup> .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	800 V
surge voltage resistance / rated value	6 kV
operating voltage	
• at DC / rated value	800 V
Protection class	
protection class IP	IP40
protection class IP / on the front	IP40
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1.8 W
• per conductor / typical	2 W
Current	
operational current	
• at 40 °C / rated value	32 A
• at 45 °C / rated value	32 A
• at 50 °C / rated value	32 A

<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>• at DC-21 A / at 600 V / rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>• at DC-21 A / at 440 V / rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>• at DC-21 A / at 220 V / rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>• at DC-21 A / at 800 V / rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>• at DC-22 A / at 220 V / rated value</li> </ul>	16 A
<ul style="list-style-type: none"> <li>• at DC-22 A / at 600 V / rated value</li> </ul>	16 A
<ul style="list-style-type: none"> <li>• at DC-22 A / at 800 V / rated value</li> </ul>	16 A
<ul style="list-style-type: none"> <li>• at DC-22 A / at 440 V / rated value</li> </ul>	16 A
operational current / of upstream fuse / rated value	40 A
operational current / at DC / rated value	32 A
let-through current / with closed switch	
<ul style="list-style-type: none"> <li>• at 440 V / for combination switch + gG fuse / maximum</li> </ul>	4.5 kA
<ul style="list-style-type: none"> <li>• at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	5 kA
<b>Main circuit</b>	
operational current / rated value	32 A
<b>Auxiliary circuit</b>	
operating voltage / of auxiliary contacts / at AC / maximum	500 V
continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
<b>Suitability</b>	
suitability for use	
<ul style="list-style-type: none"> <li>• main switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• switch disconnecter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• EMERGENCY OFF switch</li> </ul>	No
<ul style="list-style-type: none"> <li>• safety switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• maintenance/repair switch</li> </ul>	Yes
<b>Appearance</b>	
color / of the actuating element	black
<b>Product details</b>	
product feature	
<ul style="list-style-type: none"> <li>• can be locked into OFF position</li> </ul>	Yes
number of bracket locks / maximum	2
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	6 mm
product extension / optional	
<ul style="list-style-type: none"> <li>• motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<b>Short circuit</b>	
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> <li>• at 690 V / by gG fuse / rated value</li> </ul>	50 kA
<b>according UL</b>	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	32 A
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	600 V
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
continuous current / of upstream fuse / according to UL / rated value	80 A
type of fuse / according to UL	RK5
<b>Number</b>	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2

number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0

### Connections

AWG number / as coded connectable conductor cross section / solid	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• minimum</li> </ul>	<p>8</p> <p>14</p>
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with core end processing</li> <li>• stranded</li> </ul>	<p>1x (1,5...16mm<sup>2</sup>)</p> <p>1x (1,5...10mm<sup>2</sup>)</p> <p>1x (1,5...16mm<sup>2</sup>)</p>
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with core end processing</li> <li>• stranded</li> </ul>	<p>2x (0.75 ... 2.5 mm<sup>2</sup>), 1x 4 mm<sup>2</sup></p> <p>2x (0.75 ... 1.5 mm<sup>2</sup>), 1x 2.5 mm<sup>2</sup></p> <p>2x (0.75 ... 2.5 mm<sup>2</sup>), 1x 4 mm<sup>2</sup></p>
type of electrical connection	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>	<p>box terminal</p> <p>connection terminals</p>

### Requirements

design of the fuse link	
<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>	<p>fuse gL/gG: 40 A</p> <p>fuse gL/gG: 10 A</p>

### Mechanical Design

height	128 mm
width	98 mm
depth	129 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	<p>No</p> <p>No</p> <p>Yes</p>
net weight	419 g

### Environmental conditions

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

### General Product Approval

### Declaration of Conformity



[Confirmation](#)



### Test Certificates

other

[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

### Further information

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=3LD2230-8VQ11-0AF6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2230-8VQ11-0AF6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2230-8VQ11-0AF6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2230-8VQ11-0AF6)

**CAX-Online-Generator**

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

**Tender specifications**

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



