

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
type of switch	DIN-rail mounting
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	2
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
operating frequency / maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage / rated value	800 V
surge voltage resistance / rated value	6 kV
operating voltage	
• at DC / rated value	800 V
operating frequency / rated value	
• minimum	50 Hz
• maximum	60 Hz
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
Current	
operational current / rated value	32 A
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"> • at 55 °C / rated value 	32 A
<ul style="list-style-type: none"> • at DC-21 A / at 600 V / rated value 	32 A
<ul style="list-style-type: none"> • at DC-21 A / at 440 V / rated value 	32 A
<ul style="list-style-type: none"> • at DC-21 A / at 220 V / rated value 	32 A
<ul style="list-style-type: none"> • at DC-21 A / at 800 V / rated value 	32 A
<ul style="list-style-type: none"> • at DC-22 A / at 220 V / rated value 	16 A
<ul style="list-style-type: none"> • at DC-22 A / at 600 V / rated value 	16 A
<ul style="list-style-type: none"> • at DC-22 A / at 800 V / rated value 	16 A
<ul style="list-style-type: none"> • at DC-22 A / at 440 V / rated value 	16 A
operational current / at DC / rated value	32 A
Main circuit	
operational current <ul style="list-style-type: none"> • at AC-21 A / at 400 V / rated value 	32 A
Auxiliary circuit	
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
Suitability	
suitability for use <ul style="list-style-type: none"> • main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch 	 Yes Yes No Yes Yes
Product details	
product feature / can be locked into OFF position	Yes
accessories	
product extension / optional <ul style="list-style-type: none"> • motor drive • voltage trigger 	 No No
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
number of bracket locks / maximum	2
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 690 V / by gG fuse / rated value 	50 kA
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 	 4.5 kA 4.5 kA 5 kA
I _{2t} value / with closed switch / at 240 V / for combination switch + gG fuse / maximum	9 kA ² .s
I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	9 kA ² .s
I _{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	9 kA ² .s
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 	 fuse gL/gG: 40 A fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	40 A
according UL	

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

Connections

AWG number / as coded connectable conductor cross section / solid	
<ul style="list-style-type: none"> • maximum • minimum 	<p>8</p> <p>14</p>
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	<p>1x (1,5...16mm²)</p> <p>1x (1,5...10mm²)</p> <p>1x (1,5...16mm²)</p>
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	<p>2x (0.75 ... 2.5 mm²), 1x 4 mm²</p> <p>2x (0.75 ... 1.5 mm²), 1x 2.5 mm²</p> <p>2x (0.75 ... 2.5 mm²), 1x 4 mm²</p>
type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	<p>box terminal</p> <p>connection terminals</p>

Mechanical Design

height	128 mm
width	98 mm
depth	129 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	<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"> • minimum • maximum 	<p>-25 °C</p> <p>55 °C</p>
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-25 °C</p> <p>55 °C</p>

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?mfb=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?mfb=3LD2230-8VQ11-0AF6

CAX-Online-Generator

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

Tender specifications

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



