## SIEMENS

## Data sheet

## 3LD2165-3VB51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, black

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	Main switch	
display version for switch position indicator manual	1 ON - 0 OFF	
operation		
type of switch	Molded-plastic enclosure for metric threaded joint	
design of the actuating element	Short rotary knob	
color of the actuating element	black	
design of handle	rotary operating mechanism, black	
type of the driving mechanism motor drive	No	
General technical data		
number of poles	6	
number of poles note	PE + N	
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		
<ul> <li>at AC rated value</li> </ul>	690 V	
operating frequency rated value		
• minimum	50 Hz	
• maximum	60 Hz	
Protection class		
protection class IP	IP65	
degree of protection NEMA rating	1, 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	1.1 W	
Main circuit		
operational current		
<ul> <li>at AC-21 at 690 V rated value</li> </ul>	25 A	
<ul> <li>at AC-21 A at 240 V rated value</li> </ul>	25 A	
<ul> <li>at AC-21 A at 400 V rated value</li> </ul>	25 A	
<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	25 A	

<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	20 A
operating power	
<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	5 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	10 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	9.5 kW
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	10 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	4 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	8 kW
• at AC-3 at 690 V rated value	7.5 kW
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
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
motor drive	No
<ul> <li>voltage trigger</li> </ul>	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	5
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current with line-side fuse	
protection	
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3.5 kA
• at 440 V for combination switch + gG fuse maximum	3.5 kA
• at 690 V for combination switch + gG fuse maximum permissible	4 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	4 kA2.s
• at 440 V for combination switch + gG fuse maximum	4 kA2.s
• at 690 V for combination switch + gG fuse maximum	4 kA2.s
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> </ul>	fuse gL/gG: 25 A
<ul> <li>required</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gL/gG: 10 A
required operational current of upstream fuse rated value	25 A
according UL	
operational current at AC according to UL 508/UL 60947- 4-1 rated value	25 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	10
active power [hp] at AC at 600 V according to UL 508/UL	15

60047.4.1 reted value	
60947-4-1 rated value short-time withstand current (SCCR) at 600 V according to	5 kA
UL 508/UL 60947-4-1 continuous current of upstream fuse according to UL rated	50 A
value	
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	8
• minimum	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1,516mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1,510mm²)
• stranded	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	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> )
• finely stranded with core end processing	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>
• stranded	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	Switch 1A (0,70 2,01111 )
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	188 mm
width	146 mm
depth	149 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
<ul> <li>4-hole front mounting</li> </ul>	No
<ul> <li>front mounting with central attachment</li> </ul>	Yes
rail mounting	No
net weight	874 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	-25 °C
<ul> <li>minimum</li> <li>maximum</li> </ul>	-25 °C
	55 C
General Product Approval	
Confirmation	Miscellaneous
(SP) (UL)	FAI
Can UL	vve
Declaration of Conformity Test Certification	ates Marine / Shipping other
UK CE Miscellaned	Dus Confirmation Miscellaneous
	Régister
EG-Konf.	LRS
Environment	

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3LD2165-3VB51

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-3VB51}$ 

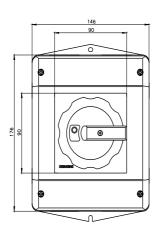
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> en.aspx?mlfb=3LD2165-3VB51

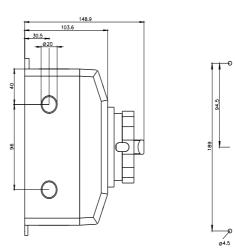
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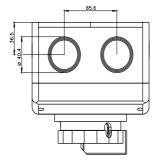
http://www.siemens.com/cax

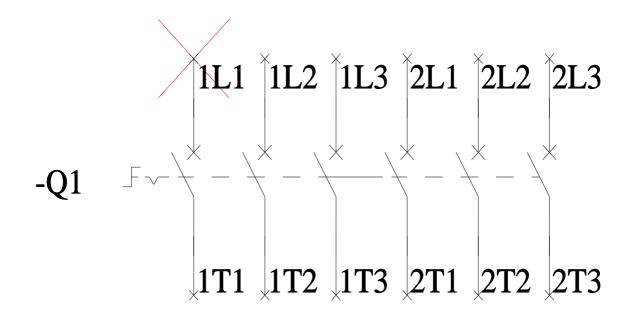
Tender specifications

http://www.siemens.com/specifications









last modified:

4/28/2022 🖸

4/7/2023