## **SIEMENS**

Data sheet 3LD2165-4VD51



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 screw connection, 1 NC, 1 NO, 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	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				
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, 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			
Current				
operational current rated value	25 A			
operational current				
at 40 °C rated value	25 A			
<ul> <li>at 45 °C rated value</li> </ul>	25 A			
<ul> <li>at 50 °C rated value</li> </ul>	25 A			

• at 55 °C rated value	25 A
at AC rated value	25 A
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
at AC-21 A at 440 V rated value	25 A
at AC-23 A at 400 V rated value	20 A
operating power  ● at AC-23 A at 240 V rated value	5 kW
at AC-23 A at 240 V rated value      at AC-23 A at 400 V rated value	10 kW
at AC-23 A at 440 V rated value     at AC-23 A at 440 V rated value	9.5 kW
• at AC-23 A at 690 V rated value	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
<ul> <li>at AC-3 at 690 V rated value</li> </ul>	7.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
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	Voc
main switch     switch disconnector	Yes Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
Product details product feature can be locked into OFF position	Yes
	Yes
product feature can be locked into OFF position	Yes
product feature can be locked into OFF position accessories	Yes
product feature can be locked into OFF position  accessories  product extension optional  • motor drive  • voltage trigger	No No
product feature can be locked into OFF position  accessories  product extension optional  • motor drive  • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum	No No 2
product feature can be locked into OFF position  accessories  product extension optional	No No 2
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 50 kA
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s
product feature can be locked into OFF position  accessories  product extension optional	No No 2 3 0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 5 kA 5 kA 5 kA 5 kA 5 kA 5 kA 6 kA 7 kA 7 kA 8

according UL				
operational current at AC according to UL 508/UL 60947-	25 A			
4-1 rated value				
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 60947-4-1 rated value	15			
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	50 A			
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 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)			
finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²			
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)			
type of electrical connection				
for main current circuit	box terminal			
<ul> <li>for auxiliary contacts</li> </ul>	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	877 g			
Environmental conditions				
ambient temperature during operation				
• minimum	-25 °C			
• maximum	55 °C			
ambient temperature during storage				
• minimum	-25 °C			
• maximum	55 °C			
General Product Approval				



Confirmation







**Miscellaneous** 

General Product Approval	Declaration of Conformity	Test Certificates	Marine / Shipping	other
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**Miscellaneous** 



Environmental Confirmations

other

**Miscellaneous** 

## **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=3LD2165-4VD51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-4VD51

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD51

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications











