SIEMENS

Data sheet 3LD2165-4VD53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 6-pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, Molded plastic encapsulation for metric cable gland, 1 NC, 1 NO, rotary operating mechanism, red/yellow

Model				
product brand name	SENTRON			
product designation	3LD Switch disconnector			
design of the product	EMERGENCY-STOP switch			
display version / for switch position indicator manual operation	1 ON - 0 OFF			
design of the actuating element	Short rotary knob			
design of handle	rotary operating mechanism, red/yellow			
type of the driving mechanism / motor drive	No			
General technical data				
number of poles	6			
number of poles / note	N			
type of device	fixed mounting			
type of switch	Molded-plastic enclosure for metric threaded joint			
size of switch disconnector	2			
mechanical service life (switching cycles) / typical	100 000			
electrical endurance (switching cycles)				
• at AC-23 A / at 690 V	6 000			
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA2.s			
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA2.s			
operating frequency / maximum	50 1/h			
Voltage				
insulation voltage / rated value	690 V			
surge voltage resistance / rated value	6 kV			
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			
 per conductor / typical 	1 W			
Current				
operational current				
 at 40 °C / rated value 	25 A			
 at 45 °C / rated value 	25 A			
 at 50 °C / rated value 	25 A			

a at EE °C / rated value	2F A
• at 55 °C / rated value	25 A 25 A
at AC / rated value at AC 23 A / at 400 V / rated value	
at AC-23 A / at 400 V / rated value at AC-21 / at 600 V / rated value at AC-21 / at 600 V / rated value	20 A 25 A
• at AC-21 / at 690 V / rated value	25 A
 at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value 	25 A
operational current / of upstream fuse / rated value	25 A
let-through current / with closed switch	237
• at 440 V / for combination switch + gG fuse /	3.5 kA
maximum	J.J KA
 at 690 V / for combination switch + gG fuse / 	4 kA
maximum permissible	
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	5 kW
• at AC-23 A / at 400 V / rated value	10 kW
at AC-23 A / at 440 V / rated value	9.5 kW
at AC-23 A / at 690 V / rated value	10 kW
• at AC-3 / at 240 V / rated value	4 kW
• at AC-3 / at 400 V / rated value	8 kW
at AC-3 / at 690 V / rated value	7.5 kW
operational current / rated value	25 A
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	V
• main switch	Yes
switch disconnector FMEDOENOX OFF writch	Yes
EMERGENCY OFF switch Agents a switch	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	red
Product details	
product feature	V
can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	4 mm 8 mm
product extension / optional	0 111111
motor drive	No
voltage trigger	No
Short circuit	110
conditional short-circuit current / with line-side fuse	
oonanional short-oncult current / with IIIIC-SIUC 1USC	
protection	
protection ● at 690 V / by gG fuse / rated value	50 kA
•	50 kA
• at 690 V / by gG fuse / rated value	50 kA 25 A
at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL	
at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	25 A
according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL	25 A 600 V

to UL 508/UL 60947-4-1	50.4			
continuous current / of upstream fuse / according to UL / rated value	50 A			
type of fuse / according to UL	RK5			
Number				
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2			
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	3			
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0			
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)			
 finely stranded / with core end processing 	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			
 for auxiliary contacts 	connection terminals			
Requirements				
design of the fuse link				
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 25 A			
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A			
Mechanical Design				
height	188 mm			
width	146 mm			
depth	149 mm			
fastening method	Complete unit in enclosure			
fastening method				
 4-hole front mounting 	No			
 front mounting with central attachment 				
• Horit mounting with central attachment	Yes			
• rail mounting	Yes No			
_				
• rail mounting	No			
rail mounting net weight	No			
• rail mounting net weight Environmental conditions	No			
rail mounting net weight Environmental conditions ambient temperature / during operation	No 882 g			
 rail mounting net weight Environmental conditions ambient temperature / during operation minimum 	No 882 g -25 °C			





Confirmation





Miscellaneous

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



Miscellaneous

other

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=3LD2165-4VD53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-4VD53

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

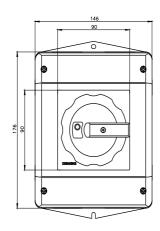
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2165-4VD53

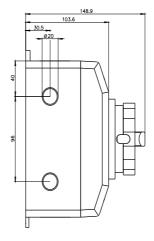
CAx-Online-Generator

http://www.siemens.com/cax

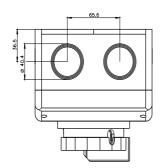
Tender specifications

http://www.siemens.com/specifications









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