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	Switch disconnector	
design of the product	EMERGENCY-STOP switch	
display version for switch position indicator manual operation	1 ON - 0 OFF	
type of switch	Molded-plastic enclosure for metric threaded joint	
design of the actuating element	Short rotary knob	
color of the actuating element	red	
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	
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	
Main circuit		
operational current		
at AC-21 at 690 V rated value	25 A	
•	25 A 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 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
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 main switch	Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	Tes
product extension optional	No.
motor drive	No
voltage trigger	No
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
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	
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	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	
a at 240 V for combination quitable and free mariners	4 kA2.s
 at 240 V for combination switch + gG fuse maximum 	T IVAZ.3
 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum 	4 kA2.s
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• at 440 V for combination switch + gG fuse maximum	4 kA2.s
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 	4 kA2.s
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link	4 kA2.s 4 kA2.s
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required	4 kA2.s 4 kA2.s fuse gL/gG: 25 A
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required	4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1	4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream 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 508/UL	4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value	4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream 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 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A 25 A

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
•	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
Mechanical Design	
height	188 mm
width	146 mm
depth	149 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	Yes
rail mounting	No
net weight	882 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
maximum	55 °C
Approvals Certificates	

General Product Approval









Miscellaneous



Test Certificates Marine / Shipping other Environment

Miscellaneous



Miscellaneous

Confirmation

Environmental Confirmations Environmental Confirmations

Further information

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=3LD2165-4VD53

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-4VD53

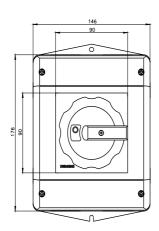
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2165-4VD53

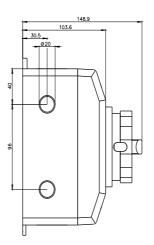
CAx-Online-Generator

nttp://www.siemens.com/cax

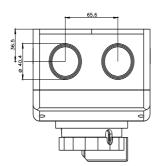
Tender specifications

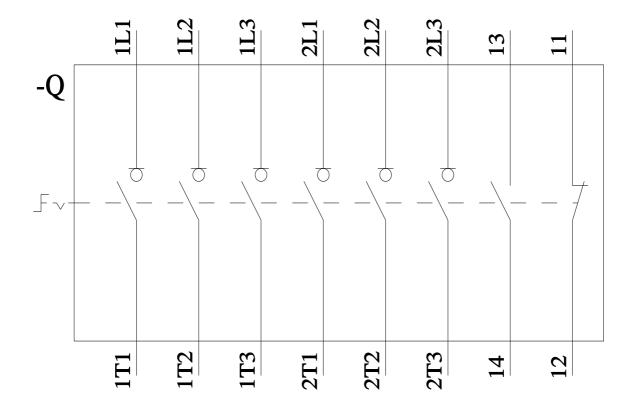
http://www.siemens.com/specifications

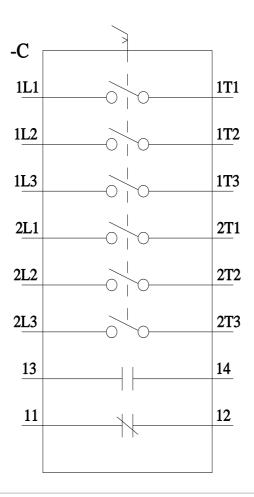












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