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

product brand name product designation as SENTRON 3LD Switch disconnector design of the product display version for switch position indicator manual operation type of switch display version for switch position indicator manual operation type of switch design of the actuating element color of the actuating element design of handle type of the driving mechanism motor drive No	Model				
design of the product display version for switch position indicator manual operation type of switch design of the actuating element color of the actuating element design of the actuating element color of the actuating element design of handle type of the driving mechanism motor drive Ceneral technical data number of poles number of poles of the switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution Voltage insulation voltage resistance rated value operating frequency rated value • minimum • maximum Frotection class IP degree of protection NEMA rating protection class IP degree of protection NEMA rating protection class IV of rated value of the current at AC in hot operating state or sule. • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 45 °C rated value • at 40 °C rated value • at 45 °C rated value	product brand name	SENTRON			
display version for switch position indicator manual operation type of switch design of the actuating element solor of the actuating element red design of handle rotary operating mechanism motor drive red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Ceneral technical data	product designation	3LD Switch disconnector			
operation type of switch design of the actuating element color of the actuating element design of handle type of the driving mechanism motor drive Ceneral technical data number of poles number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution Voltage insulation voltage rated value operating requency rated value • minimum • maximum Protection class IP degree of protection NEMA rating protection class IP of the route of the current at AC in hot operating state per pole Current operational current rated value • at 40°C rated value • operational current rated value • coperating for current rated value operating in the actuating of the current at AC in hot operating state per pole current • at 40°C rated value • at 40°C rated value • coperational current rated value • coperating current rated value operating in the actuating 1.1 W operating outpage 25 A • at 40°C rated value	design of the product	EMERGENCY-STOP switch			
type of switch design of the actuating element color of the actuating element design of handle type of the driving mechanism motor drive type of the driving mechanism motor drive type of the driving mechanism motor drive No Ceneral technical data number of poles number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution Voltage insulation voltage rated value operating requency rated value • at AC rated value • minimum • maximum Protection class IP degree of protection NEMA rating protection class IP of the front Dissipation Urrent Operational current rated value operating state per pole Current • at 40° C rated value • at 45° C rated value	display version for switch position indicator manual	1 ON - 0 OFF			
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design of handle type of the driving mechanism motor drive No Ceneral technical data No		Short rotary knob			
type of the driving mechanism motor drive General technical data number of poles number of poles note size of switch disconnector general isolation for the size of switch disconnector general isolation general ge	_	red			
General technical data number of poles number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution Voltage insulation voltage rated value surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value • minimum • maximum 50 Hz • maximum 50 Hz 690 V operating frequency rated value • minimum 50 Hz • maximum 50 Hz Frotection class IP degree of protection NEMA rating 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 Current operational current rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 45 °C rated value • at 45 °C rated value • at 45 °C rated value • at 40 °C rated value	· ·				
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mechanical service life (operating cycles) typical 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 690 V operating voltage • at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 600 V operating frequency rated value 600 Hz Protection class IP 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 Current operational current rated value 25 A operational current rated value 25 A • at 45 °C rated value 25 A	number of poles note	N			
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at AC rated value operating frequency rated value minimum min	surge voltage resistance rated value	6 kV			
operating frequency rated value	operating voltage				
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 Current operational current rated value at 40 °C rated value at 45 °C rated value 25 A at 45 °C rated value 25 A 	 at AC rated value 	690 V			
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Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current operational current rated value	degree of protection NEMA rating	1, 4X, 12			
power loss [W] for rated value of the current at AC in hot operating state per pole Current operational current rated value operational current • at 40 °C rated value • at 45 °C rated value 25 A • at 45 °C rated value 25 A	protection class IP on the front	IP65			
operating state per pole Current operational current rated value 25 A operational current • at 40 °C rated value 25 A • at 45 °C rated value 25 A	Dissipation				
Current operational current rated value operational current • at 40 °C rated value • at 45 °C rated value 25 A • at 45 °C rated value 25 A		1.1 W			
operational current rated value 25 A operational current • at 40 °C rated value 25 A • at 45 °C rated value 25 A					
operational current • at 40 °C rated value • at 45 °C rated value 25 A 25 A		25 A			
 at 40 °C rated value at 45 °C rated value 25 A 25 A 	•				
• at 45 °C rated value 25 A	•	25 A			

at 55 °C rated value	25 A
at AC rated value	25 A
Main circuit	
operational current	
 at AC-21 at 690 V rated value 	25 A
 at AC-21 A at 240 V rated value 	25 A
 at AC-21 A at 400 V rated value 	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
 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	Voc
main switch switch disconnector	Yes Yes
EMERGENCY OFF switch	Yes
• 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
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 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
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)			
 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	05.00			
• minimum	-25 °C			
maximum ambient temperature during storage	55 °C			
ambient temperature during storage • minimum	-25 °C			
minimum maximum	-25 °C			
General Product Approval				





Confirmation





Miscellaneous

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

other

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

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











