



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 3-pole, Iu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
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	3
size of switch disconnecter	2
mechanical service life (switching cycles) typical	100 000
electrical endurance (switching 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, 3R, 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	1.8 W
Current	
operational current rated value	32 A
operational current	
• at 40 °C rated value	32 A
• at 45 °C rated value	32 A
• at 50 °C rated value	32 A
• at 55 °C rated value	32 A

<ul style="list-style-type: none"> at AC rated value 	32 A
Main circuit	
operational current	
<ul style="list-style-type: none"> at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value at AC-23 A at 400 V rated value 	32 A 32 A 32 A 32 A 22 A
operating power	
<ul style="list-style-type: none"> at AC-23 A at 240 V rated value at AC-23 A at 400 V rated value at AC-23 A at 440 V rated value at AC-23 A at 690 V rated value at AC-3 at 240 V rated value at AC-3 at 400 V rated value at AC-3 at 690 V rated value 	6 kW 12 kW 11.5 kW 12 kW 5.5 kW 10 kW 9.5 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	
<ul style="list-style-type: none"> main switch switch disconnecter EMERGENCY OFF switch safety switch maintenance/repair switch 	Yes Yes Yes Yes Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
<ul style="list-style-type: none"> motor drive voltage trigger 	No No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
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	
<ul style="list-style-type: none"> at 690 V by gG fuse rated value 	50 kA
let-through current with closed switch	
<ul style="list-style-type: none"> at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible 	4.5 kA 4.5 kA 5 kA
I ² t value with closed switch	
<ul style="list-style-type: none"> at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 	9 kA ² .s 9 kA ² .s 9 kA ² .s
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 40 A fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A

according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	32 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	20
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	20
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	80 A
type of fuse according to UL	RK5

Connections	
AWG number as coded connectable conductor cross section solid	
<ul style="list-style-type: none"> • maximum • minimum 	<p>8</p> <p>14</p>
type of connectable conductor cross-sections for copper conductor	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • stranded 	<p>1x (1,5...16mm²)</p> <p>1x (1,5...10mm²)</p> <p>1x (1,5...16mm²)</p>
type of connectable conductor cross-sections for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • stranded 	<p>lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²)</p> <p>lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²</p> <p>lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²)</p>
type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	<p>box terminal</p> <p>connection terminals</p>

Mechanical Design	
height	83 mm
width	67 mm
depth	92.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	<p>Yes</p> <p>No</p> <p>No</p>
net weight	205 g

Environmental conditions	
ambient temperature during operation	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-25 °C</p> <p>55 °C</p>
ambient temperature during storage	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-25 °C</p> <p>55 °C</p>

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Declaration of Conformity	Test Certificates	Marine / Shipping
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Special Test Certificate



Marine / Shipping

other



[Environmental Confirmations](#)

[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=3LD2203-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2203-0TK53>

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

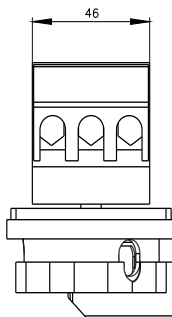
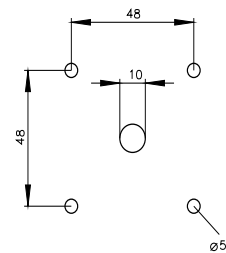
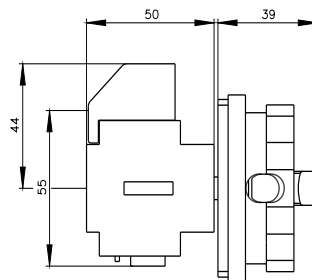
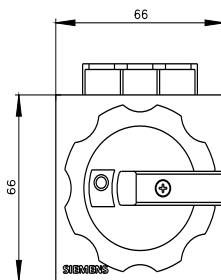
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2203-0TK53

CAx-Online-Generator

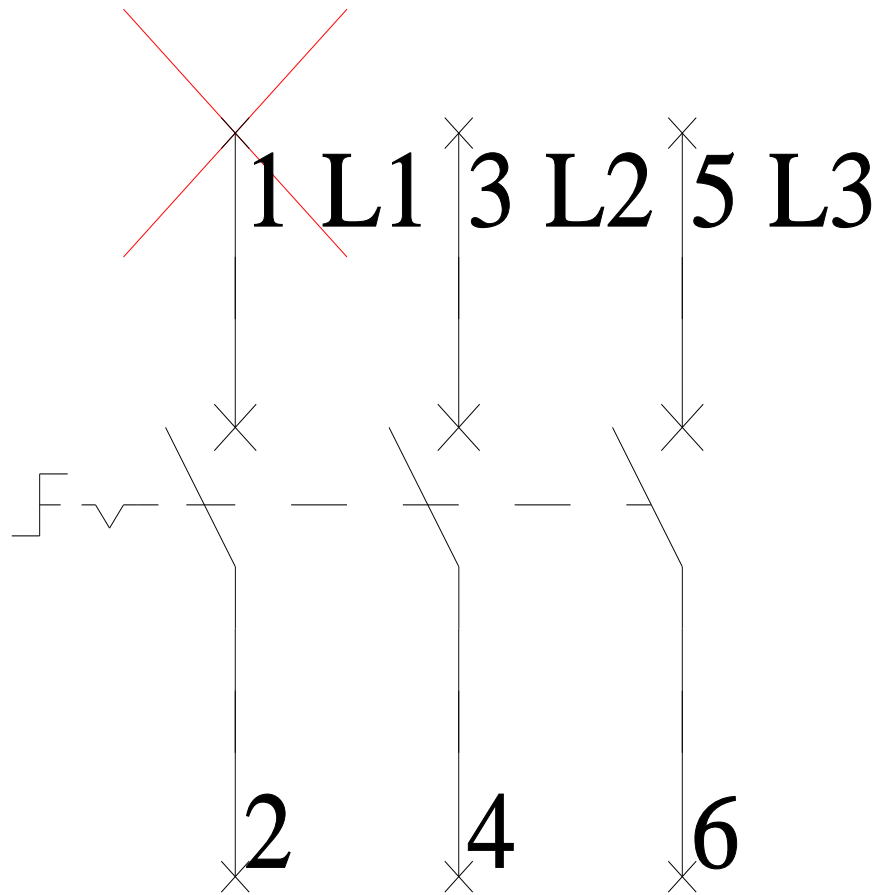
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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