SIEMENS

Data sheet 3LD2203-1TL51



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	Main 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	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
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
/oltage	
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
Main circuit	
operational current	
at AC-21 at 690 V rated value	32 A
• at AC-21 A at 240 V rated value	32 A
• at AC-21 A at 400 V rated value	32 A
at AC-21 A at 440 V rated value	32 A

at AC-23 A at 400 V rated value	22 A
operating power	LL / \
at AC-23 A at 240 V rated value	6 kW
at AC-23 A at 240 V rated value at AC-23 A at 400 V rated value	12 kW
at AC-23 A at 400 V rated value at AC-23 A at 440 V rated value	11.5 kW
at AC-23 A at 440 V rated value at AC-23 A at 690 V rated value	12 kW
at AC-23 A at 690 V rated value at AC-3 at 240 V rated value	5.5 kW
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	10 kW
at AC-3 at 400 V rated value at AC-3 at 690 V rated value	9.5 kW
Auxiliary circuit	9.5 KW
	0
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	500 V
operating voltage of auxiliary contacts at AC maximum	10 A
continuous current of the auxiliary contact rated value	500 V
insulation voltage of the auxiliary switch rated value Suitability	500 V
	V
suitability for use main switch	Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No You
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	Yes
product feature can be locked into OFF position accessories	169
product extension optional	
motor drive	No
	No
voltage trigger number of connectable NC contacts for auxiliary contacts	2
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	2
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	4.5 kA
• at 440 V for combination switch + gG fuse maximum	4.5 kA
at 690 V for combination switch + gG fuse maximum permissible	5 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	9 kA2.s
• at 440 V for combination switch + gG fuse maximum	9 kA2.s
• at 690 V for combination switch + gG fuse maximum	9 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
for short-circuit protection of the auxiliary switch required	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	
an austing valtage at AC at 50/00 Hz according to HI 500/HI	32 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	
	32 A
60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	32 A 600 V

continuous current of upstream fuse according to UL rated value Type of fuse according to UL PRK5 Connections AWG number as coded connectable conductor cross section solid maximum *	UL 508/UL 60947-4-1	
type of fuse according to UL Connectable conductor cross-section solid maximum AWG number as coded connectable conductor cross-section solid maximum a		80 A
AWG number as coded connectable conductor cross section solid maximum • 8 • 14 type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded		
AWG number as coded connectable conductor cross section solid maximum • 8 • 14 type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing of tx (1,516mm²) • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10 (0,75 2,5mm²) • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², front auxiliary switch 12,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 10,75 2,5mm² • stranded ilateral auxiliary switch 2x	type of fuse according to UL	RK5
section solid maximum	Connections	
type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²), 1x 2,5mm², 1x 2,5mm², 1x 2,5mm², 1x 2,5mm², 1x 2,5mm², 1x 2,5mm², 1x 4mm²; front auxiliary switch 1x (0,75 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 auxiliary contacts box terminal for auxiliary contacts machanical Design height s3 mm width for mm depth g2.5 mm type of device fixed mounting fastening method fastening method strant mounting fastening method strant mounting fastening with central attachment No rail mounting with central attachment No rail mounting with central attachment No rail mounting with central attachment No real mounting net weight		
type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing or auxiliary contacts • solid • finely stranded with core end processing • finely stranded with core end processing • stranded • for main current circuit • for auxiliary contacts * solid • for auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts * solid * solid • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², front auxiliary switch 1x (0,75 2,5mm²) * symbol 2,5mm² * symbol 2,5mm	•	8
conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing of including the section of including the section of the section o	•	14
 finely stranded with core end processing stranded 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 stranded stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm²; front auxiliary switch 2,5mm² stranded 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 for auxiliary contacts box terminal for auxiliary contacts methenarical Design 83 mm width 67 mm depth gase mounting fastening method fastening method 4-hole front mounting fornt mounting with central attachment nonet weight 219 g 	71	
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 2x,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 83 mm width 67 mm depth 92.5 mm type of device fixed mounting fastening method 4-hole front mounting fastening method 4-hole front mounting for of mounting with central attachment for ail mounting net weight 219 g	• solid	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 • stranded • stranded • stranded • stranded stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 2x,5mm² 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 • for auxiliary contacts box terminal connection terminals Mechanical Design height	 finely stranded with core end processing 	1x (1,510mm²)
e solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) e finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 2,5mm² e stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection e for main current circuit e for auxiliary contacts box terminal for auxiliary contacts Mechanical Design height 83 mm width 67 mm depth 92.5 mm type of device fixed mounting fastening method e 4-hole front mounting e 4-hole front mounting e front mounting with central attachment e rail mounting net weight 219 g	• stranded	1x (1,516mm²)
• finely stranded with core end processing • finely stranded with core end processing • stranded • stranded • stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm²; 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		
estranded 2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection	• solid	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 • for auxiliary contacts Mechanical Design height width 67 mm depth 92.5 mm type of device fastening method effort mounting • 4-hole front mounting • front mounting with central attachment • rail mounting net weight 10,75 2,5mm²) box terminal box terminals 83 mm 67 mm 67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes • front mounting with central attachment • rail mounting No 219 g	• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• for main current circuit • for auxiliary contacts **Mechanical Design** **height** **height** **height** **Base mm** **width** **Gr mm** depth** **type of device** **fastening method** **fastening method** **astening method** **other front mounting** **other front mounting with central attachment** **other mounting method** **other front mounting with central attachment** **other mounting method** **other mounting me	• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
e for auxiliary contacts Mechanical Design	type of electrical connection	
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 Yes • front mounting with central attachment No • rail mounting No net weight 219 g	for main current circuit	box terminal
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	for auxiliary contacts	connection terminals
width 67 mm depth 92.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method	Mechanical Design	
depth 92.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method	height	83 mm
type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method	width	67 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Built-in unit fixed-mounted version Yes No No 219 g	depth	92.5 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting No net weight Yes No No 219 g	type of device	fixed mounting
 4-hole front mounting front mounting with central attachment rail mounting net weight Yes No 219 g 	fastening method	Built-in unit fixed-mounted version
 front mounting with central attachment rail mounting No net weight No 219 g 	fastening method	
● rail mounting No net weight 219 g	4-hole front mounting	Yes
net weight 219 g	 front mounting with central attachment 	No
*	rail mounting	No
Environmental conditions	net weight	219 g
Environmental conditions	Environmental conditions	
ambient temperature during operation	ambient temperature during operation	
• minimum -25 °C	• minimum	-25 °C
• maximum 55 °C	• maximum	55 °C
ambient temperature during storage	ambient temperature during storage	
• minimum -25 °C	• minimum	-25 °C
• maximum 55 °C	• maximum	55 °C
Approvals Certificates	Annrovals Certificates	

General Product Approval



ccc









Miscellaneous

General Product Approval

Marine / Shipping

other









Miscellaneous

Confirmation

Environment

Environmental Con-

Environmental Con-

Information on the packaging

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=3LD2203-1TL51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2203-1TL51

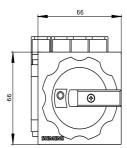
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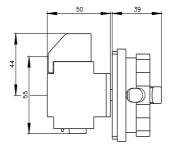
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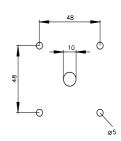
http://www.siemens.com/cax

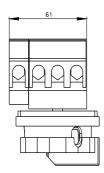
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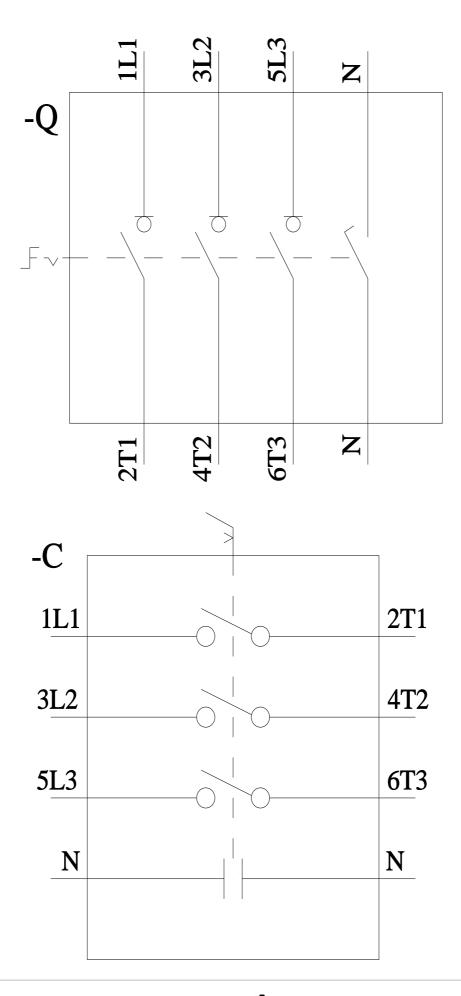
http://www.siemens.com/specifications











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