SIEMENS

Data sheet 3LD2113-4VP51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, floor mounting with door coupling, 1 NC, 1 NO, 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	Floor mounting with door coupling
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	6
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, 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	1.1 W
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 at AC-23 A at 440 V rated value at AC-23 A at 440 V rated value at AC-23 A at 490 V rated value at AC-3 at 440 V rated value at AC-3 at 240 V rated value at AC-3 at 240 V rated value at AC-3 at 240 V rated value at AC-3 at 490 V rated value at AC-3 at 690 V rated value at AC-3 at 690 V rated value 7.5 kW Auxiliary cruti number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts operating voltage of auxiliary contacts operating voltage of auxiliary contacts at AC maximum sout over the auxiliary contact at AC maximum yes emain switch emain switch yes Product details product extension optional emotor drive No evoltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of bracket locks maximum nu
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Short circuit
Onort off our
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
I2t value with closed switch
• at 240 V for combination switch + gG fuse maximum 4 kA2.s
• at 440 V for combination switch + gG fuse maximum 4 kA2.s
• at 690 V for combination switch + gG fuse maximum 4 kA2.s
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
operational current of upstream fuse rated value 25 A
according UL
operational current at AC according to UL 508/UL 60947-4-1 25 A 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 60947- 4-1 rated value
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value
short-time withstand current (SCCR) at 600 V according to UL 5 kA 508/UL 60947-4-1

type of fuse according to UL Tonnections AWG number as coded connectable conductor cross section solid maximum minimum 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 solid tx (1,516mm²) 1x (1,516mm²) 1x (1,516mm²) 1x (1,516mm²) 1x (1,516mm²)		
AWG number as coded connectable conductor cross section solid • maximum • minimum 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 lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x	continuous current of upstream fuse according to UL rated value	50 A
AWG number as coded connectable conductor cross section solid • maximum • minimum 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 type of connectable conductor cross-sections for auxiliary contacts • solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x	type of fuse according to UL	RK5
solid • maximum • minimum 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 type of connectable conductor cross-sections for auxiliary contacts • solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x	Connections	
 minimum 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 lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x 		
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 1x (1,516mm²) 1x (1,510mm²) 1x (1,516mm²) 1x (1,516mm²)	• maximum	8
conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid 1x (1,516mm²) 1x (1,510mm²) 1x (1,516mm²) 1x (1,516mm²)	• minimum	14
 finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid 1x (1,510mm²) 1x (1,516mm²) 		
● stranded 1x (1,516mm²) type of connectable conductor cross-sections for auxiliary contacts ● solid 1x (1,516mm²) type of connectable conductor cross-sections for auxiliary contacts • solid 1x (1,516mm²) type of connectable conductor cross-sections for auxiliary contacts • solid 1x (1,516mm²)	• 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	 finely stranded with core end processing 	1x (1,510mm²)
contacts ● solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x	• stranded	1x (1,516mm²)
	• solid	
• finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 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)	• stranded	
type of electrical connection	type of electrical connection	
• for main current circuit box terminal	for main current circuit	box terminal
• for auxiliary contacts connection terminals	for auxiliary contacts	connection terminals
Mechanical Design	Mechanical Design	
height 84 mm	height	84 mm
width 67 mm	width	67 mm
depth 429.5 mm	depth	429.5 mm
type of device fixed mounting	type of device	fixed mounting
fastening method Built-in unit fixed-mounted version	fastening method	Built-in unit fixed-mounted version
fastening method	fastening method	
4-hole front mounting Yes	4-hole front mounting	Yes
• front mounting with central attachment No	 front mounting with central attachment 	No
• rail mounting Yes	• rail mounting	Yes
net weight 608 g	net weight	608 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	and the latest control of the latest control	-25 °C
• maximum 55 °C	• minimum	
General Product Approval		



Confirmation







Miscellaneous

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping



CE EG-Konf.



Special Test Certificate





other

Environment

Confirmation

Miscellaneous

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3LD2113-4VP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2113-4VP51

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2113-4VP51

CAx-Online-Generator

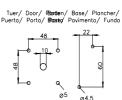
nttp://www.siemens.com/cax

Tender specifications

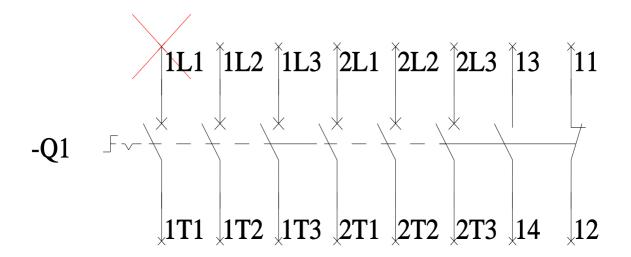
http://www.siemens.com/specifications

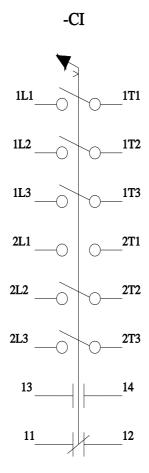












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