SIEMENS

Data sheet

3LD2013-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, floor mounting with door coupling, rotary operating mechanism, black, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	3LD 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	3
size of switch disconnector	1
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	0.5 W
Main circuit	
operational current	
 at AC-21 at 690 V rated value 	16 A
 at AC-21 A at 240 V rated value 	16 A
 at AC-21 A at 400 V rated value 	16 A
 at AC-21 A at 440 V rated value 	16 A
 at AC-23 A at 400 V rated value 	16 A

Uperating Jone IN AC23 A #400 V rated value IN AC23 A #400 V rated valu	aparating power	
• At AC-23 A # 400 V refet value 8 kW • At AC-23 A # 400 V refet value 7.5 kW • At AC-23 A # 600 V refet value 8 kW • At AC-23 A # 600 V refet value 6 kW • At AC-23 # 400 V refet value 5.5 kW Auxiliary circuit 0 number of CC contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 operating values of auxiliary contacts at AC maximum 500 V stability Yes • attach walks Yes • attach walks Yes • attach walks Yes stability Yes • attach walks Yes attachable maximum No • attachable maximum No • attachable maximum Sa • attachable maximum Sa • attachable maximum Sa • attachable maximum Sa	operating power	
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• at AC-3 at at 60 V rated value 8 kW • at AC-3 at 400 V rated value 8 kW • at AC-3 at 400 V rated value 6 kW • at AC-3 at 400 V rated value 5 kW Auxiliary circuit 0 number of CO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 contacts for auxiliary contact at AC maximum 500 V contacts for auxiliary contact at AC maximum 500 V contacts for auxiliary contact at AC maximum 500 V sublability for use - • main switch Yes • switch disconnector Yes • maintenance/repair switch Yes • collage trager No • contact for auxiliary contacts 5 • collage trager No • collage trager So • collage trag		
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• at AC-3 at 400 V meter value 5.5 kW Auxiliary circuit 0 Auxiliary circuit 0 Auxiliary circuit 0 Auxiliary circuit 0 Contracts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 operating values of auxiliary contacts at AC maximum continuous current of the auxiliary contact rated value 500 V Stability 5 subtability for use - - main switch Yes - which disconnector Yes Product data/s - number of c		
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number of NO contacts for auxiliary contacts at AC maximum 600 V outnitudes current of the auxiliary contact rated value 500 V sublability for use 500 V • main witch Yes • main witch Yes • switch disconnector Yes • switch disconnector Yes • main witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • motor drive No • motor drive No • woltage rigger No • motor drive No • woltage rigger No number of connectable NC contacts for auxiliary contacts 5 • woltage rigger No number of the bracket locks 4 8 mm Short circuit 3 • attachable maximum 3 • attachable maximum 3 kA • at 600 V by g6 fuse rated value 50 k/A Istachable maximum 3 kA </td <td>number of CO contacts for auxiliary contacts</td> <td>0</td>	number of CO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum 500 V Suttability 500 V Suttability 500 V Suttability for use 900 V • main switch Yes • switch disconnetor Yes • switch disconnetor Yes • switch disconnetor Yes • switch disconnetor Yes • mainternance/repair switch Yes product device can be locked into OFF position Yes recommentable NC contacts for auxiliary contacts No • motor drive No • motor drive No • under of connectable NC contacts for auxiliary contacts 5 attachable maximum 3 number of connectable NC contacts for auxiliary contacts 5 attachable maximum 3 number of connectable NC contacts for auxiliary contacts 1 attachable maximum 3 hest efficient 5 attachable maximum 3 hest efficient 5 attachable maximum 3 hest efficient	number of NC contacts for auxiliary contacts	0
continuous current of the auxiliary contact rated value 500 V Suitability 500 V Suitability for use - • main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • main switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes Product default - product default - product default - product default No • woltage trigger No • unative can be locked into OFF position Yes Sccassorise No product default - • notor drive No • woltage trigger No • unative of connectable NC contacts for auxiliary contacts 3 attachable maximum 3 number of connectable NO contacts for auxiliary contacts 4 Short circuit 3 Iterbrough current with loses witch 4 • at 800 V by contacts anximum 3 • attachable maximum 3	number of NO contacts for auxiliary contacts	0
Insulation voltage of the auxiliary switch rated value 500 V Suitability Suita		500 V
Suitability	-	
suitability for use • main switch • switch disconnector • Yes • EMERCENCY OFF switch • asafety switch • asafety switch • asafety switch • asafety switch • readimentation optional • motor drive • outage trigger product extension optional • motor drive • outage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of bronectable NC contacts for auxiliary contacts attachable maximum number of bronectable NC contacts for auxiliary contacts attachable maximum number of bracket locks attachable maximum hasp thickness of the bracket locks attachable maximum hasp thickness of the bracket locks attachable maximum at at440 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum at at40 V for combination switch + gG fuse maximum be at 680 V V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximum be at 680 V for combination switch + gG fuse maximu		500 V
• switch disconnector Yes • switch disconnector Yes • EMERGENCY OF F switch No • safety switch Yes Product details Yes product feature can be locked into OFF position Yes Cecessories ************************************		
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 at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch at 240 V for combination switch + gG fuse maximum 2.5 kA2.s at 440 V for combination switch + gG fuse maximum 2.5 kA2.s at 690 V for combination switch + gG fuse maximum 3 kA2.s 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 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 600 V 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL 		3 kA
permissibleI2t value with closed switch• at 240 V for combination switch + gG fuse maximum• 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• at 690 V for combination switch + gG fuse maximum• at 690 V for combination switch + gG fuse maximum• for short-circuit protection of the main circuit required• for short-circuit protection of the auxiliary switch required• for short-circuit protection of the auxiliary switch required• poperational current of upstream fuse rated value20 Aaccording ULoperating voltage at AC at 50/60 Hz according to UL508/UL 60947-4-1 rated valueactive power [hp] at AC at 480 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/ULactive power [hp] at AC at 600 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL10	• at 440 V for combination switch + gG fuse maximum	3 kA
 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 at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum c for short-circuit protection of the main circuit required f for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value cording UL operational current at AC according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL to be according to UL 508/UL 		3 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b at 690 V for combination switch + gG fuse maximum b for short-circuit protection of the main circuit required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required b for short-circuit protection of the auxiliary switch required c for short-circuit protection of the aux	I2t value with closed switch	
 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 for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 20 A 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 to L 508/UL 	 at 240 V for combination switch + gG fuse maximum 	2.5 kA2.s
design of the fuse linkfuse gL/gG: 20 A• for short-circuit protection of the main circuit requiredfuse gL/gG: 20 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value20 Aaccording UL20 Aoperational current at AC according to UL 508/UL 60947- 4-1 rated value16 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value7.5active power [hp] at AC at 600 V according to UL 508/UL 0 J 1010	-	2.5 kA2.s
 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 20 A 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 600 V 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 7.5 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 10 		3 kA2.s
requiredfor short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value20 Aaccording UL20 Aoperational current at AC according to UL 508/UL 60947- 4-1 rated value16 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value7.5active power [hp] at AC at 600 V according to UL 508/UL 1010	-	
required20 Aaccording UL20 Aoperational current at AC according to UL 508/UL 60947- 4-1 rated value16 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value7.5active power [hp] at AC at 600 V according to UL 508/UL 0 V according to UL 508/UL10	required	
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 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 10		fuse gL/gG: 10 A
operational current at AC according to UL 508/UL 60947- 4-1 rated value16 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value7.5active power [hp] at AC at 600 V according to UL 508/UL10	operational current of upstream fuse rated value	20 A
4-1 rated value600 Voperating voltage at AC at 50/60 Hz according to UL600 V508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL7.560947-4-1 rated value7.5active power [hp] at AC at 600 V according to UL 508/UL10	according UL	
operating voltage at AC at 50/60 Hz according to UL600 V508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL7.560947-4-1 rated value600 Vactive power [hp] at AC at 600 V according to UL 508/UL10		16 A
active power [hp] at AC at 480 V according to UL 508/UL7.560947-4-1 rated valueactive power [hp] at AC at 600 V according to UL 508/UL10	operating voltage at AC at 50/60 Hz according to UL	600 V
active power [hp] at AC at 600 V according to UL 508/UL 10		7.5
		10

short-time withstand current (SCCR) at 600 V according UL 508/UL 60947-4-1	to 5 kA
continuous current of upstream fuse according to UL rate value	ed 50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross	
section solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
 finely stranded with core end processing 	1x (14mm ²)
stranded	1x (16mm ²)
type of connectable conductor cross-sections for auxiliary	
contacts	, ,
• solid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
 finely stranded with core end processing 	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
	84 mm
height width	67 mm
depth	429.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	Built-In drift fixed-modified version
4-hole front mounting	Yes
 front mounting with central attachment 	No
● rail mounting	Yes
net weight	411 g
Environmental conditions	
ambient temperature during operation	
minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	
The second se	
Confirmation	Miscellaneous
	ζ) (U _L) / ν _Ε
C2A CC	.c UL VDE
General Product Declaration of Conformity	Test Certificates Marine / Shipping
Approval	i est derundates marine / Shipping
EAL AR C	C Special Test Certific-
	e ate Register
othor -	
other Environn	nent



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=3LD2013-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2013-0TK51

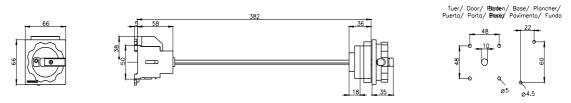
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3LD2013-0TK51

CAx-Online-Generator

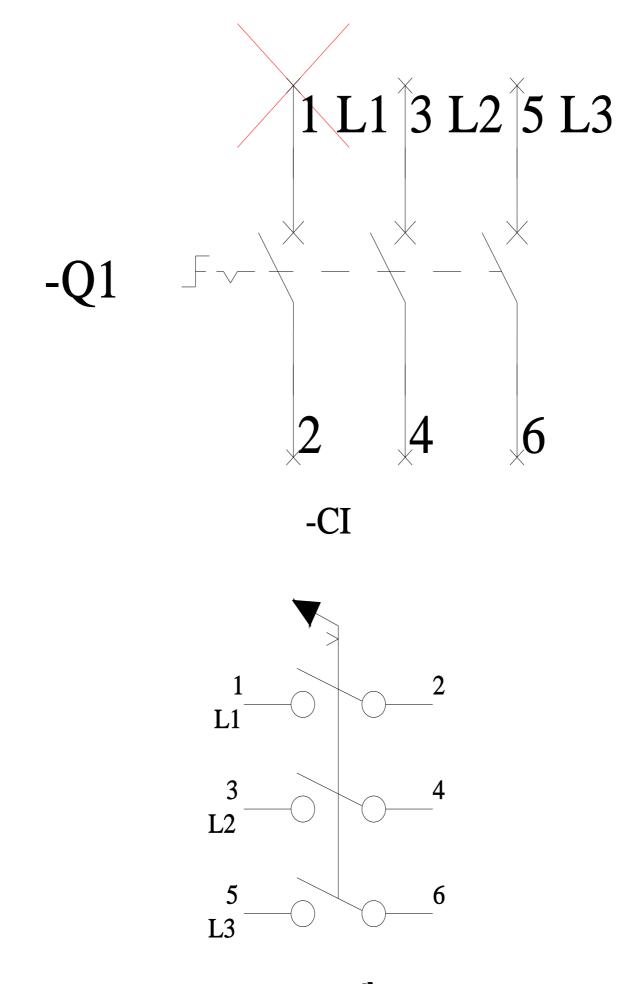
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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