SIEMENS

Data sheet 3LD2213-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, Iu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, floor mounting with door coupling, 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	3
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	1.8 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

operating power at AC-23 A at 20 V rated value at AC-23 A at 40 V rated value at AC-23 A at 40 V rated value at AC-23 A at 40 V rated value at AC-32 A at 40 V rated value at AC-32 A at 40 V rated value at AC-33 at 20 V rated value at AC-33 at 20 V rated value at AC-33 at 20 V rated value by 55 kW at AC-33 at 20 V rated value at AC-33 at 20 V rated value by 55 kW at AC-33 at 20 V rated value can be ac-33 at 20 V rated value can be ac-33 at 20 V rated value can be ac-34 at 30 V rated value continuous current of the auxiliary contacts con power of NC contacts for auxiliary contacts con power of NC contacts for auxiliary contacts con power of NC contacts for auxiliary contacts continuous current of the auxiliary contact rated value southability for use switch disconnector yes suitability for use switch disconnector yes suitability for use switch disconnector yes suitability for use maintenancerepair switch yes product details product details on be locked into OFF position yes reproduct details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be locked into OFF position yes product details on be lo	at AC-23 A at 400 V rated value	22 A
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let-through current with closed switch • 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 240 V for combination switch + gG fuse maximum • 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 • 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 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 600 V according to UL 508/UL 60947-4-1 rated value		
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at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum be for short-circuit protection of the main circuit required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be fuse gL/gG: 10 A coperational current at AC according to UL 508/UL 60947-4-1 coperational current at AC according to UL 508/UL 60947-4-1 coperational current at AC at 50/60 Hz according to UL 508/UL coperating voltage at AC at 50/60 Hz according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperating voltage at AC at 480 V according to UL 508/UL coperatin	let-through current with closed switch	
at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 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 be at 690 V for combination switch + gG fuse maximum fuse gL/gG: 40 A for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current of upstream fuse rated value 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 600 V according to UL 508/UL 60947-4-1 rated value 20	• at 240 V for combination switch + gG fuse maximum	4.5 kA
Dermissible	• at 440 V for combination switch + gG fuse maximum	4.5 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 by kA2.s design of the fuse link after 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 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 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	•	5 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum be sk2.s design of the fuse link be for short-circuit protection of the main circuit required be for short-circuit protection of the auxiliary switch required be operational current of upstream fuse rated value 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 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	I2t value with closed switch	
at 690 V for combination switch + gG fuse maximum be for short-circuit protection of the main circuit required fuse gL/gG: 40 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 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 600 V according to UL 508/UL 60947-4-1 rated value 20 20 20	• at 240 V for combination switch + gG fuse maximum	9 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 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 600 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	• at 440 V for combination switch + gG fuse maximum	9 kA2.s
● 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 ● for short-circuit protection of the auxiliary switch required ● for short-circuit protection of the auxiliary switch required ● for short-circuit protection of the main circuit required ● for short-circuit protection of the main circuit required ● for short-circuit protection of the main circuit required ● for short-circuit protection of the main circuit required ● 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 ● for short-circuit protection of the auxiliary switch required ● fuse gL/gG: 40 A ● fuse gL/gG: 10 A ● A ■ A	• at 690 V for combination switch + gG fuse maximum	9 kA2.s
● for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 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 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	design of the fuse link	
operational current of upstream fuse rated value 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 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	• for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
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 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 20 60947-4-1 rated value	• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
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 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	operational current of upstream fuse rated value	40 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	according 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		32 A
active power [hp] at AC at 600 V according to UL 508/UL 20 60947-4-1 rated value		600 V
60947-4-1 rated value		20
short-time withstand current (SCCR) at 600 V according to 5 kA		20
	short-time withstand current (SCCR) at 600 V according to	5 kA

UL 508/UL 60947-4-1	
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 maximum	
•	8
•	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	83 mm
width	67 mm
depth	451.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
 front mounting with central attachment 	No
• rail mounting	Yes
net weight	392 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







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous









Miscellaneous

other Environment

<u>Confirmation</u> <u>Environmental Confirmations</u>

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=3LD2213-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2213-0TK51

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2213-0TK51

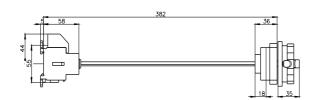
CAx-Online-Generator

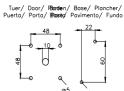
http://www.siemens.com/cax

Tender specifications

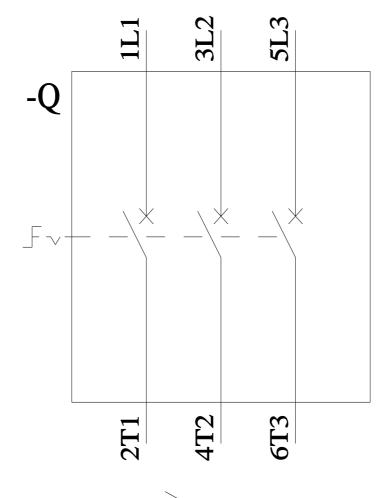
http://www.siemens.com/specifications

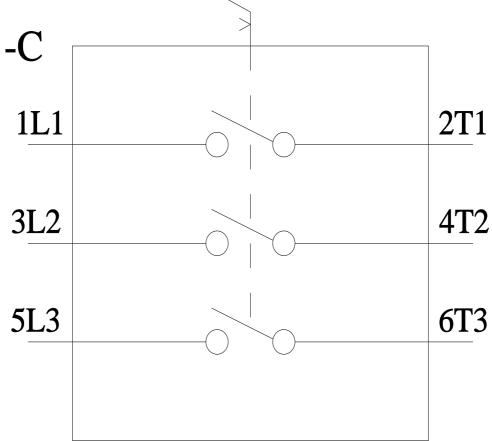












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