SIEMENS

Data sheet 3LD2514-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 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	3
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	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A

e at AC-23 A at 240 V rated value 22 kW 2 kM 2-24 At 240 V rated value 22 kW 2 kM 2-24 At 440 V rated value 22 kW 2 kM 2 kM 2-24 At 460 V rated value 22 kW 2 kM 2 kM 2 kM 2 kM 2 kM 2 kM 2 k	a at AC 23 A at 400 V reted value	43 A
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attachable maximum number of connectable CO contacts for auxiliary contacts attachable 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 let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum at 240 V for combination switch + gG fuse maximum end 24 kA2.s • at 690 V for combination switch + gG fuse maximum at 24 kA2.s • at 690 V for combination switch + gG fuse maximum at 440 V for combination s		3
number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 10 kA 10 let-through current with closed switch • at 240 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 permissible 12 value with closed switch • 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 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 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 240 V for combination switch + gG fuse maximum at 690 V for combination		5
hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 10 kA 10 let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible 12 value with closed switch • at 240 V for combination switch + gG fuse maximum permissible 12 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 • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum can design of the fuse link • for short-circuit protection of the main circuit required fuse gL/gG: 63 A		0
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 • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t 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 • 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 • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum 10 kA2.s • at 690 V for combination switch + gG fuse maximum 11 kA2.s • at 690 V for combination switch + gG fuse maximum 12 kA2.s • at 690 V for combination switch + gG fuse maximum 13 kA2.s • at 690 V for combination switch + gG fuse maximum 14 kA2.s • at 690 V for combination switch + gG fuse maximum 15 kA2.s • at 690 V for combination switch + gG fuse maximum 16 kA 17 kA2.s 18 kA2.s	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 10 tet-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 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 • 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 • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum 1 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s	hasp thickness of the bracket locks	4 8 mm
protection	Short circuit	
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 permissible l2t 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 fuse fuse fuse fuse fuse fuse fuse		
 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 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 tA2.s at 690 V for combination switch + gG fuse maximum tA2.s at 690 V for combination switch + gG fuse maximum fuse gL/gG: 63 A 	at 690 V by gG fuse rated value	50 kA
 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 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum tA2.s at 690 V for combination switch + gG fuse maximum tA2.s at 690 V for combination switch + gG fuse maximum fuse gL/gG: 63 A 	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 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum tA2.s at 690 V for combination switch + gG fuse maximum tA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 63 A 	• at 240 V for combination switch + gG fuse maximum	6 kA
permissible I2t value with closed switch	• at 440 V for combination switch + gG fuse maximum	6 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 kA2.s at 690 V for combination switch + gG fuse maximum kA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 63 A 	· ·	6 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 63 A 	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 fuse gL/gG: 63 A 	• at 240 V for combination switch + gG fuse maximum	21 kA2.s
design of the fuse link • for short-circuit protection of the main circuit required fuse gL/gG: 63 A	• at 440 V for combination switch + gG fuse maximum	21 kA2.s
• for short-circuit protection of the main circuit required fuse gL/gG: 63 A	• at 690 V for combination switch + gG fuse maximum	21 kA2.s
	design of the fuse link	
 for short-circuit protection of the auxiliary switch required fuse aL/aG: 10 A 		
	for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value 63 A	operational current of upstream fuse rated value	63 A
according UL	according UL	
operational current at AC according to UL 508/UL 60947-4-1 63 A rated value		63 A
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 40 60947-4-1 rated value	rated value operating voltage at AC at 50/60 Hz according to UL 508/UL	600 V
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	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	
short-time withstand current (SCCR) at 600 V according to 5 kA	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	40

UL 508/UL 60947-4-1	
continuous current of upstream fuse according to UL rated value	175 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2,535mm²)
finely stranded with core end processing	1x (2.516 mm²)
• stranded	1x (2,535mm²)
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	106 mm
width	90 mm
depth	468.5 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	624 g
Environmental conditions	
ambient temperature during operation	
ambient temperature during operation ● minimum	-25 °C
	-25 °C 55 °C
• minimum	
minimum maximum	
minimum maximum ambient temperature during storage	55 °C

General Product Approval











Miscellaneous

General Product Approval

Marine / Shipping

other

Environment







Confirmation

Miscellaneous

Environmental Confirmations

Environment

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=3LD2514-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2514-0TK51

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2514-0TK51

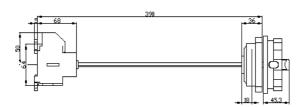
CAx-Online-Generator

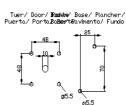
http://www.siemens.com/cax

Tender specifications

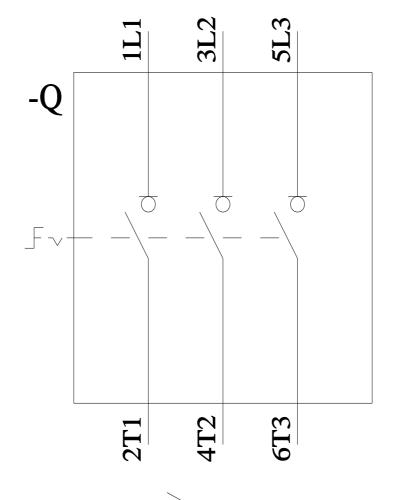
http://www.siemens.com/specifications

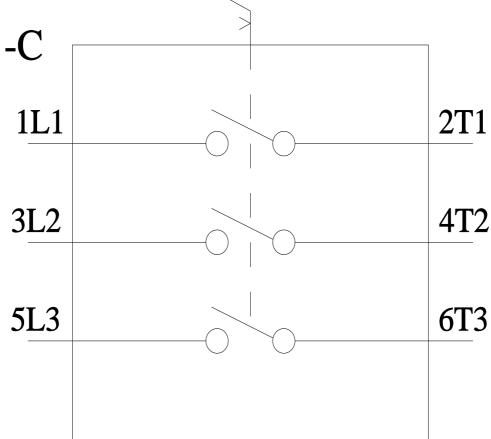












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