SIEMENS

Data sheet 3LD2013-1TL53



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

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP 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	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
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

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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 240 V for combination switch + gG fuse maximum • at 490 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 permissible 12t 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 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 fuse gL/gG: 20 A 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 60947-4-1 rated value active power (hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	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 • at 240 V for combination switch + gG fuse maximum permissible I2t 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 • 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		
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 permissible 12t value with closed switch 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 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 at 690 V for short-circuit protection of the main circuit required fuse gL/gG: 20 A 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 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 10 10	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 I2t value with closed switch at 240 V for combination switch + gG fuse maximum at 450 V for combination switch + gG fuse maximum at 450 V for combination switch + gG fuse maximum at	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 at 690 V for combination switch + gG fuse maximum before the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 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 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 active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	• at 240 V for combination switch + gG fuse maximum	3 kA
Dermissible	• 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 be at 690 V for combination switch + gG fuse maximum comparison of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A fuse gL/gG: 10 A 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 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 10	•	3 kA
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 fuse gL/gG: 20 A fuse gL/gG: 20 A fuse gL/gG: 20 A 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 fuse gL/gG: 20 A fus	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: 20 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 10 10	• at 240 V for combination switch + gG fuse maximum	2.5 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 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 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10 60947-4-1 rated value	• at 440 V for combination switch + gG fuse maximum	2.5 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 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 10	• at 690 V for combination switch + gG fuse maximum	3 kA2.s
	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 10	• for short-circuit protection of the main circuit required	fuse gL/gG: 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 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 10	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 10 60947-4-1 rated value	operational current of upstream fuse rated value	20 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 10	according UL	
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 10		16 A
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value		600 V
60947-4-1 rated value		7.5
short-time withstand current (SCCR) at 600 V according to 5 kA		10
	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	50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	10
•	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
 finely stranded with core end processing 	1x (14mm²)
stranded	1x (16mm²)
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	84 mm
width	67 mm
depth	429.5 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	423 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
ambient temperature during storage ● minimum	-25 °C
	-25 °C 55 °C

General Product Approval







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Miscellaneous

Confirmation

Environment

Environmental Confirmations

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=3LD2013-1TL53

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2013-1TL53

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3LD2013-1TL53

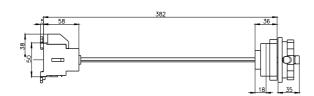
CAx-Online-Generator

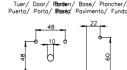
http://www.siemens.com/cax

Tender specifications

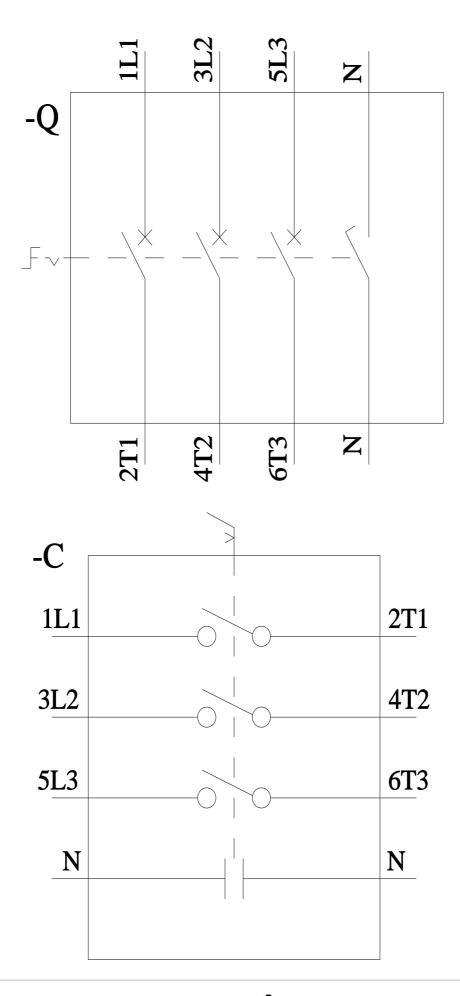
http://www.siemens.com/specifications











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