SIEMENS

Data sheet 3LD2545-0TK51



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, central mounting 22.5 mm 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	
• at AC-23 A at 400 V rated value	43 A	

operating power • at AC-23 A at 240 V rated value • at AC-23 A at 400 V rated value • at AC-23 A at 400 V rated value • at AC-23 A at 400 V rated value • at AC-33 at 240 V rated value • at AC-3 at 500 V rated value • at 400 V rated value value • at 600 V rated value value • at 600 V rated val
at AC-23 A at 440 V rated value at AC-23 A at 440 V rated value 22 kW at AC-23 A at 460 V rated value 19 kW at AC-3 at 240 V rated value 11 kW at AC-3 at 240 V rated value 15 kW Auxiliary circuit number of CC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 continuous current of the auxiliary contacts 10 continuous current of the auxiliary contact at AC maximum 500 V Sutability suitability for use emain switch switch disconnector emain switch switch disconnector EMERGENCY OFF switch or safety switch emaintenance/repair switch Product details product feature can be locked into OFF position emotor drive voltage frigger number of connectable NC contacts for auxiliary contacts at activate auxiliary contact and auxiliary contacts emain switch yes Product details product retarue can be locked into OFF position Yes cocssoriies product extension optional emotor drive voltage trigger No 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 connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum 3 hasp thickness of the bracket locks Not circuit conditional short-circuit current with line-side fuse protection at 400 V for combination switch + gG fuse maximum 6 kA at 400 V for combination switch + gG fuse maximum 4 kA 6 kA
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• at 690 V for combination switch + gG fuse maximum 6 kA
I2t value with closed switch
• at 240 V for combination switch + gG fuse maximum 21 kA2.s
• at 440 V for combination switch + gG fuse maximum 21 kA2.s
• at 690 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
• for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A
operational current of upstream fuse rated value 63 A
according UL
operational current at AC according to UL 508/UL 60947-4-1 63 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 508/UL 60947-4-1

	477. 4
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
minimum	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 	No
 front mounting with central attachment 	Yes
• rail mounting	Yes
net weight	702 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





Miscellaneous

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate





other

Environment

Miscellaneous

Confirmation

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=3LD2545-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2545-0TK51

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2545-0TK51

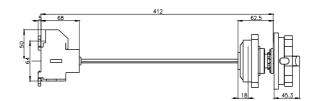
CAx-Online-Generator

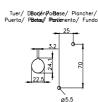
nttp://www.siemens.com/cax

Tender specifications

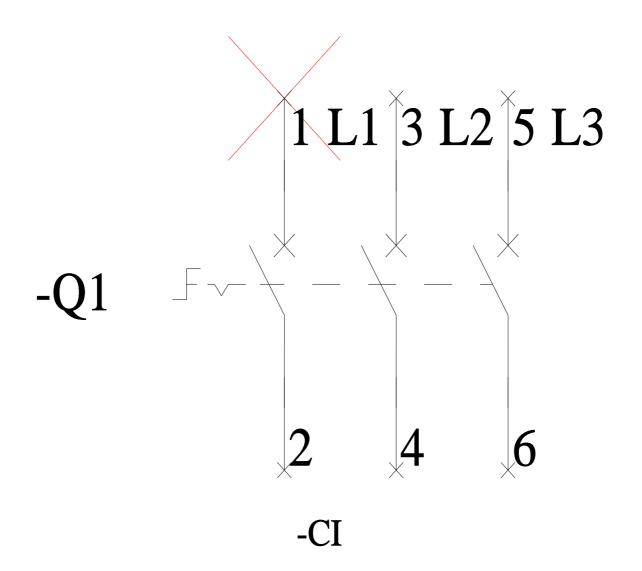
http://www.siemens.com/specifications

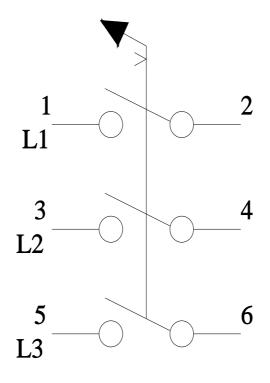












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