SIEMENS

Data sheet 3LD2514-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 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	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 	11 kW
 at AC-23 A at 400 V rated value 	22 kW
 at AC-23 A at 440 V rated value 	22 kW
 at AC-23 A at 690 V rated value 	19 kW
 at AC-3 at 240 V rated value 	11 kW
 at AC-3 at 400 V rated value 	19 kW
at AC-3 at 690 V rated value	15 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
 motor drive 	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	5
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks 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	50 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	6 kA
 at 440 V for combination switch + gG fuse maximum 	6 kA
 at 690 V for combination switch + gG fuse maximum permissible 	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 rated value	63 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	40
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	50
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA

AWG number as coded connectable conductor cross section solid • maximum • minimum type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • for end with core end processing • stranded • for auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², front auxiliary switch 1x (0,75 2,5mm²) • stranded • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) • for auxiliary contacts •		
AWG number as coded connectable conductor cross section solid maximum minimum type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing finely stranded strand	continuous current of upstream fuse according to UL rated value	175 A
AWG number as coded connectable conductor cross section solid maximum minimum 14 type of connectable conductor cross-sections for copper conductor esolid finely stranded with core end processing stranded type of connectable conductor cross-sections for copper conductor of solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid stranded type of connectable conductor cross-sections for auxiliary contacts solid stranded with core end processing stranded stranded with core end processing stranded stranded stranded stranded type of electrical connection of or main current circuit of or auxiliary contacts sonnection terminals Mochanical Design Mechanical Design 488.5 mm type of device fastening method statening method 488.5 mm type of device fastening method statening method 488.5 mm type of device for thorn mounting 488.5 mm type of device for thorn mounting 498.5 mm stranding method 480.5 mm stranding method 480.5 mm Sulli-in unit fixed-mounted version fastening method 480.5 mm stranding metho	type of fuse according to UL	RK5
solid	Connections	
• minimum 14 type of connectable conductor cross-sections for copper conductor 1x (2.535mm²) • solid 1x (2.535mm²) • finely stranded with core end processing 1x (2.535mm²) • stranded 1x (2.535mm²) type of connectable conductor cross-sections for auxiliary contacts 1x (2.535mm²) • solid (0.752,5mm²) • solid (0.752,5mm²) • finely stranded with core end processing lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²) • stranded lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²) type of electrical connection sox terminal • for auxiliary contacts connection terminals Mochanical Dosign sox terminal height 106 mm width 90 mm depth 468.5 mm type of device fixed mounting fastening method 4.4-hole front mounting Yes • front mounting with central attachment No • rail mounting Yes entweight 604.9		
type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded 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 stranded strand	• maximum	6
conductor solid finely stranded with core end processing stranded stranded stranded solid solid solid stranded stranded stranded solid sol	• minimum	14
• finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • solid • finely stranded with core end processing • finely stranded with core end processing • stranded • stranded • finely stranded with core end processing • stranded • stranded • stranded • stranded • to ramin current circuit • for auxiliary switch • for main current circuit • for auxiliary switch • for main current circuit • for auxiliary contacts ■ 106 mm width • depth • 488.5 mm type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • 4-hole front mounting • rail mounting • rewight ■ 640 g ■ 105 °C ■ ambient temperature during operation • minimum • maximum ■ 55 °C ■ ambient temperature during storage • minimum • 2-5 °C ■ minimum • 2-5 °C ■ minimum • minimum • minimum • minimum • 2-5 °C ■ minimum • minimum • minimum • 2-5 °C		
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • stranded • stranded • stranded • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded • stranded • for auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection • for auxiliary contacts • po mm dechanical Design height • finely stranded with core end processing • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) for auxiliary swi	• solid	1x (2,535mm²)
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded • stranded • stranded • for electrical connection • for auxiliary contacts box terminal • for auxiliary contacts connection terminals Mechanical Design height width 90 mm depth type of device fastening method fastening method • for fixed mounting • front mounting with central attachment • rail mounting with central attachment • rail mounting net weight enables the more auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²), 1x 4mm²; front auxiliary switc	 finely stranded with core end processing 	1x (2.516 mm²)
contacts • solid	• stranded	1x (2,535mm²)
• finely stranded with core end processing • stranded • stranded • stranded • stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (2,5mm²) 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 • for auxiliary contacts box terminal connection terminals Mechanical Design height 106 mm width 90 mm depth 468.5 mm type of device fixed mounting fastening method eathering method of the front mounting with central attachment • front mounting with central attachment • rail mounting with central attachment • rail mounting efront mounting with central attachment • rail mounting operation • minimum • 25 °C ambient temperature during otorage • minimum • 25 °C		
Stranded 2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection	• solid	
type of electrical connection • for main current circuit • for auxiliary contacts Mechanical Design height 106 mm width 90 mm depth 488.5 mm type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight • minimum • minimum • maximum • minimum • c25 °C ambient temperature during storage • minimum • c25 °C ambient temperature during storage • minimum • c25 °C	• finely stranded with core end processing	
for main current circuit for auxiliary contacts connection terminals Mechanical Design height 106 mm width 90 mm depth 468.5 mm type of device fixed mounting fastening method fastening method 4-hole front mounting for front mounting with central attachment rial mounting effort mounting et weight 640 g Environmental conditions ambient temperature during operation maximum 55 ° C ambient temperature during storage minimum -25 ° C ambient temperature during storage minimum -25 ° C	• stranded	
• for auxiliary contacts 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 net weight 640 g Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum - 25 °C ambient temperature during storage • minimum - 25 °C	type of electrical connection	
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 640 g Environmental conditions ambient temperature during operation • minimum • maximum -25 °C ambient temperature during storage • minimum -25 °C	for main current circuit	box terminal
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 640 g Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C ambient temperature during storage • minimum -25 °C	for auxiliary contacts	connection terminals
width 90 mm depth 468.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes • 4-hole front mounting Yes • front mounting with central attachment No • rail mounting Yes net weight 640 g Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C	Mechanical Design	
depth 468.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method	height	106 mm
type of device fixed mounting fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight fastening method • rail mounting result temperature during operation • minimum • maximum • maximum • minimum • 55 °C ambient temperature during storage • minimum • minimum • -25 °C	width	90 mm
fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Finvironmental conditions ambient temperature during operation • maximum • maximum ambient temperature during storage • minimum -25 °C -25 °C	depth	468.5 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Final mounting Mo 640 g Final mounting method -25 °C ambient temperature during operation • maximum -25 °C ambient temperature during storage • minimum -25 °C	type of device	fixed mounting
4-hole front mounting front mounting with central attachment rail mounting Yes net weight Finite mental conditions ambient temperature during operation minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C	fastening method	Built-in unit fixed-mounted version
• front mounting with central attachment • rail mounting Yes net weight 640 g Environmental conditions ambient temperature during operation • minimum • rail mounting • maximum 55 °C ambient temperature during storage • minimum -25 °C	fastening method	
	4-hole front mounting	Yes
net weight Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C	 front mounting with central attachment 	No
Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C	• rail mounting	Yes
ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C	net weight	640 g
 minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C 	Environmental conditions	
 maximum 55 °C ambient temperature during storage minimum -25 °C 	ambient temperature during operation	
ambient temperature during storage ● minimum -25 °C		-25 °C
• minimum -25 °C	maximum	55 °C
	ambient temperature during storage	
• maximum 55 °C	• minimum	-25 °C
	• maximum	55 °C
General Product Approval	General Product Approval	

Confirmation







Miscellaneous



Declaration of Conformity

Marine / Shipping

other

CE EG-Konf.







Miscellaneous

Confirmation

Environment

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=3LD2514-0TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2514-0TK53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2514-0TK53

CAx-Online-Generator

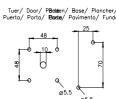
http://www.siemens.com/cax

Tender specifications

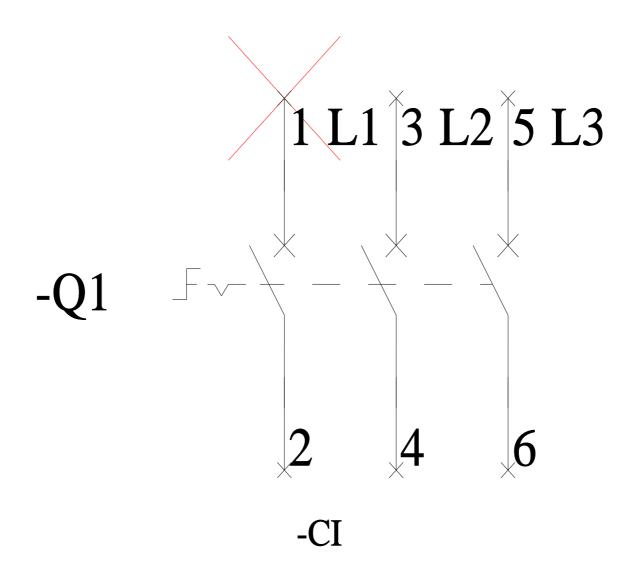
http://www.siemens.com/specifications

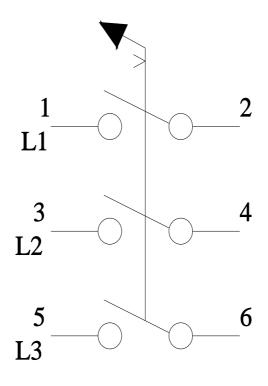












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