SIEMENS

Data sheet 3LD2514-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, Iu: 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

product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element color / of the actuating element design of he actuating element design of he actuating element design of handle type of switch red design of handle type of the driving mechanism / motor drive Roperation flowing mechanism, red/yellow type of the driving mechanism / motor drive Roperating flowing	Model	
design of the product display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element design of the actuating element design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching c	product brand name	SENTRON
display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element tred design of handle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 yoltage insulation voltage / rated value operating frequency / rated value • at AC / rated value • minimum • maximum foo Hz Protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value operational current / rated value	product designation	3LD Switch disconnector
operation type of switch design of the actuating element color / of the actuating element cell of the actuating element design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) at AC-23 A f a 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage at AC / rated value operating frequency / rated value operating frequency / rated value operating frequency / rated value 690 V operating frequency / rated value operation class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operations alcurrent / rated value operational current	design of the product	EMERGENCY-STOP switch
design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive No General technical data number of poles 3 size of switch disconnector 3 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum 50 Hz 60 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • operational current / rated value		1 ON - 0 OFF
color / of the actuating element design of handle type of the driving mechanism / motor drive No Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switch	type of switch	Floor mounting with door coupling
design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector achanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value operating frequency / rated value • foo Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation Operating value • at AC / rated value of the current / at AC / in hot operating state / per pole Current operating at AC / rated value 63 A operational current / rated value 63 A operational current • at 40 °C / rated value • at 40 °C / rated value 63 A	design of the actuating element	Short rotary knob
type of the driving mechanism / motor drive General technical data	color / of the actuating element	red
Seneral technical data number of poles 3	design of handle	rotary operating mechanism, red/yellow
number of poles size of switch disconnector 3 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value • at AC / rated value • minimum • maximum 50 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	type of the driving mechanism / motor drive	No
size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching 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 690 V operating voltage • at AC / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value • minimum 50 Hz • maximum 60 Hz Protection class IP 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 Current operational current / rated value 63 A operational current / rated value 63 A	General technical data	
mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum fegree of pollution 3 Voltage insulation voltage / rated value operating voltage resistance / rated value operating voltage • at AC / rated value • minimum omaximum for Hebe of Dissipation power loss IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current / rated value of 63 A operational current out of the switching cycles) 6 000 6	number of poles	3
electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum foo Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	size of switch disconnector	3
at AC-23 A / at 690 V operating frequency / maximum fegree of pollution voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value ominimum o	mechanical service life (switching cycles) / typical	100 000
operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value in maximum for Hz Protection class protection class IP degree of protection NEMA rating 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 Current operational current / rated value operational current / rated value operational current	electrical endurance (switching cycles)	
degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value ominimum ominimu	• at AC-23 A / at 690 V	6 000
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 IP 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 Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	operating frequency / maximum	50 1/h
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 Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	degree of pollution	3
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 6 kV 690 V	Voltage	
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 690 V 690	insulation voltage / rated value	690 V
• at AC / rated value operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 63 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 Current operational current / rated value • at 40 °C / rated value 63 A	operating voltage	
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 Current operational current / rated value 63 A operational current at 40 °C / rated value 63 A 	at AC / rated value	690 V
● maximum Protection class protection class IP degree of protection NEMA rating 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 Current operational current / rated value operational current ● at 40 °C / rated value 63 A	operating frequency / rated value	
protection class IP 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 Current operational current / rated value • at 40 °C / rated value 63 A	• minimum	50 Hz
protection class IP 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 Current operational current / rated value operational current • at 40 °C / rated value IP65 4.5 W 63 A	• maximum	60 Hz
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 1, 3R, 4X, 12 4.5 W 4.5 W 63 A	Protection class	
protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 1P65 4.5 W 63 A 63 A	protection class IP	IP65
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 63 A	degree of protection NEMA rating	1, 3R, 4X, 12
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 63 A	protection class IP / on the front	IP65
hot operating state / per pole Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	Dissipation	
operational current / rated value 63 A operational current • at 40 °C / rated value 63 A		4.5 W
operational current • at 40 °C / rated value 63 A	Current	
• at 40 °C / rated value 63 A	operational current / rated value	63 A
	operational current	
• at 45 °C / rated value 63 A	 at 40 °C / rated value 	63 A
	 at 45 °C / rated value 	63 A

• at 50 °C / rated value	63 A
at 55 °C / rated value	63 A
at AC / rated value	63 A
Main circuit	00 /
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
l2t value / with closed switch	
 at 240 V / for combination switch + gG fuse / maximum 	21 kA2.s
• at 440 V / for combination switch + gG fuse /	21 kA2.s

maximum	
• at 690 V / for combination switch + gG fuse / 21 kA2.s	
maximum	
design of the fuse link	
• for short-circuit protection of the main circuit / fuse gL/gG: required	63 A
 for short-circuit protection of the auxiliary switch / required 	10 A
operational current / of upstream fuse / rated value 63 A	
according UL	
operational current / at AC / according to UL 508/UL 63 A 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 40 508/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	
continuous current / of upstream fuse / according to UL / rated value	
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 (2,535n	
• finely stranded / with core end processing 1x (2.516)	
• stranded 1x (2,535m	m²)
type of connectable conductor cross-sections / for auxiliary contacts	
	ary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary 75 2,5mm²)
 finely stranded / with core end processing lateral auxilia switch 1x 2, 	ary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary smm²
	ary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary 75 2,5mm²)
type of electrical connection	
• for main current circuit box terminal	
• for auxiliary contacts connection t	erminals
Mechanical Design	
height 106 mm	
width 90 mm	
depth 468.5 mm	
type of device fixed mounti	
	ixed-mounted version
fastening method • 4-hole front mounting Yes	
• front mounting vith central attachment No	
• rail mounting Yes	
net weight 640 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







<u>Miscellaneous</u>

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate





other

Miscellaneous

Environmental Confirmations

Further information

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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

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











