SIEMENS

Data sheet

3LD2514-1TL53

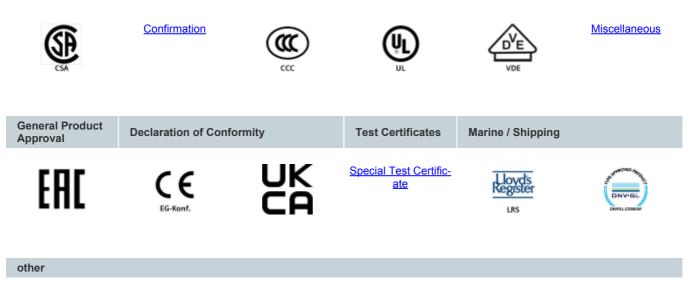


SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

product brand name SENTRON product designation 3LD Switch disconnector design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 1ON - 0 OFF type of switch Floor mounting with door coupling design of the actualing element Short rotary knob color / of the actualing element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data	Model	
design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 10N - 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 Censer1 technical data	product brand name	SENTRON
display version / for switch position indicator manual operation 1 ON - 0 OFF Upe of switch Floor mounting with door coupling design of the actuating element red color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of switch design of handle number of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage resistance / rated value 690 V operating frequency / rated value 60 Hz Protection class IP IP65 degree of prot	product designation	3LD Switch disconnector
operation Floor mounting with door coupling design of the actuating element red color / of the actuating element red design of handle rotary operating mechanism, red/yellow bype of the driving mechanism / motor drive No General technical data	design of the product	EMERGENCY-STOP switch
design of the actualing element Short rotary knob color / of the actualing element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Genoral technical data number of poles number of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 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 frequency / rated value 690 V operating rotage e at AC / rated value operating voltage 680 V operating rotage voltage resistance / rated value 690 V operating frequency / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V <td></td> <td>1 ON - 0 OFF</td>		1 ON - 0 OFF
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 Inumber of poles aumber of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 70 Hz operating frequency / rated value 70 Hz<	type of switch	Floor mounting with door coupling
design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles number of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Votage insulation votage / rated value insulation votage / rated value 690 V operating frequency / rated value 60 Hz operating frequency / rated value 60 Hz operating frequency / rated value 13, 3R, 4X, 12<	design of the actuating element	Short rotary knob
type of the driving mechanism / motor drive No General technical data	color / of the actuating element	red
General technical data number of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 60 00 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating voltage 6 kV operating requency / rated value 690 V operating voltage 6 kV operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V emaximum 60 Hz Protection class IP IP65 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation Protection Rescover / rated value of the current / at AC / in hoperatio	design of handle	rotary operating mechanism, red/yellow
number of poles 4 size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating state / per pole IP65 Dissipation IP65 Dissipation 4.5 W operating state / per pole 63 A operational current 63 A	type of the driving mechanism / motor drive	No
size of switch disconnector 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 64V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 50 Hz emaximum 50 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protecton class IP / on the front IP65	General technical data	
mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 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 690 V • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating trequency / rated value 100 000 operating concellass IP IP65 protection class IP IP65 operating state / per pole 4.5 W operating state / per pole 63 A operational current / rated value 63 A operational current 63 A	number of poles	4
electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage resistance / rated value 64V operating voltage 64V • at AC / rated value 690 V operating frequency / rated value 690 V • at AC / rated value 690 V operating frequency / rated value 600 V operating frequency / rated value 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 4.5 W operational current / rated value of the current / at AC / in hot operating state / per pole current 63 A operational current 63 A operation	size of switch disconnector	3
• at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 64 KV • at AC / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissiplation 4.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 63 A operational current / rated value <	mechanical service life (switching cycles) / typical	100 000
operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 60 Hz Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 4.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 63 A operational current / rated value 63 A operational current 63 A	electrical endurance (switching cycles)	
degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • maximum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 4.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 63 A operational current 63 A	• at AC-23 A / at 690 V	6 000
Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.5 W Current 63 A operational current 63 A	operating frequency / maximum	50 1/h
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 4.5 W operating state / per pole 63 A operational current 63 A	degree of pollution	3
surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz • minimum 60 Hz Protection class 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 2000 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.5 W Operational current / rated value 63 A operational current 63 A	Voltage	
operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1P65 current 4.5 W operating state / per pole 63 A operational current 63 A operational current 63 A	insulation voltage / rated value	690 V
• at AC / rated value 690 V operating frequency / rated value 50 Hz • 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 63 A operational current / rated value 63 A operational current 63 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value 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 Current 63 A operational current / rated value 63 A	operating voltage	
 minimum 50 Hz maximum 60 Hz Protection class protection class IP IP65 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 e at 40 °C / rated value 63 A 	 at AC / rated value 	690 V
• maximum60 HzProtection classIP65protection NEMA rating1, 3R, 4X, 12protection class IP / on the frontIP65DissipationIP65power loss [W] / for rated value of the current / at AC / in hot operating state / per pole4.5 WOperational current / rated value63 Aoperational current63 Aoperational current63 A	operating frequency / rated value	
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protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.5 W Current operational current / rated value operational current 63 A operational current 63 A	• maximum	60 Hz
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 Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	Protection class	
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Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.5 W Current operational current / rated value 63 A operational current 63 A • 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 4.5 W Current operational current / rated value 63 A operational current 63 A operational current 63 A	protection class IP / on the front	IP65
hot operating state / per pole Current operational current / rated value 63 A operational current 63 A operational current 63 A	Dissipation	
operational current / rated value 63 A operational current 63 A • at 40 °C / rated value 63 A		4.5 W
operational current 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

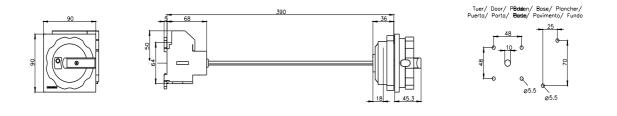
a at E0 °C / rated value	62.4
• at 50 °C / rated value	63 A
• at 55 °C / rated value	63 A
at AC / rated value	63 A
Main circuit	
operational current	
 at AC-21 / at 690 V / rated value 	63 A
 at AC-21 A / at 240 V / rated value 	63 A
 at AC-21 A / at 400 V / rated value 	63 A
 at AC-21 A / at 440 V / 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	3
/ attachable / maximum	
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 / 	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 / 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
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 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
type of electrical connection	
 for main current circuit 	box terminal
 for auxiliary contacts 	connection terminals
Mechanical Design	
height	106 mm
width	90 mm
depth type of device	468.5 mm
type of device fastening method	fixed mounting Built-in unit fixed-mounted version
fastening method	
4-hole front mounting	Yes
 front mounting with central attachment 	No
rail mounting	Yes
net weight	696 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	25 10
• minimum	-25 °C
maximum Constal Product Approval	55 °C
General Product Approval	

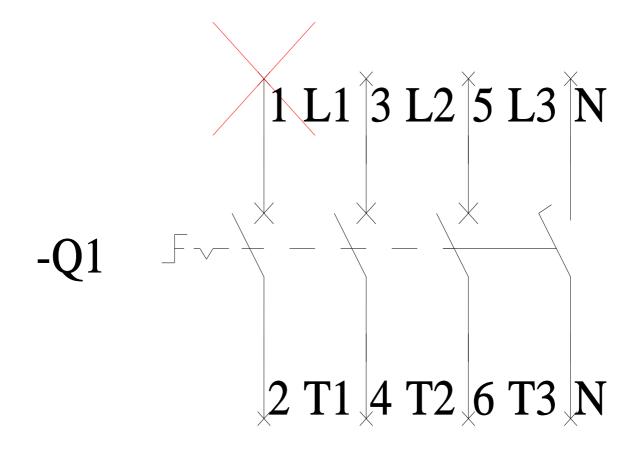


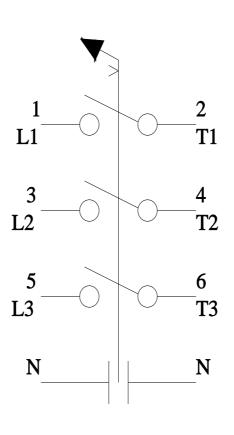
Environmental Confirmations Miscellaneous

Ir	iformation- and Downloadcenter (Catalogs, Brochures,)
h	ttp://www.siemens.com/lowvoltage/catalogs
	idustry Mall (Online ordering system) ttps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2514-1TL53
	ervice&Support (Manuals, Certificates, Characteristics, FAQs,) ttps://support.industry.siemens.com/cs/ww/en/ps/3LD2514-1TL53
	nage database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) ttp://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2514-1TL53
С	Ax-Online-Generator
h	ttp://www.siemens.com/cax
Т	ender specifications
h	ttp://www.siemens.com/specifications









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