SIEMENS

Data sheet 3LD2504-1TP53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, front-mounted, 1 NC, 1 NO, 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 color / of the actuating element design of the actuating element design of handle type of switch front mounted Short rotary knob red red design of handle type of the driving mechanism / motor drive Romera technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (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 operating requency / rated value • minimum so that • at AC / trated value • minimum so that • maximum fo that so that	Model		
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operation type of switch design of the actuating element color / of the actuating element red red red red red red rotary operating mechanism, red/yellow type of the driving mechanism / motor drive 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 / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum	design of the product	EMERGENCY-STOP switch	
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color / of the actuating element design of handle type of the driving mechanism / motor drive Ceneral technical data number of poles size of switch disconnector amechanical service life (switching cycles) / typical electrical endurance (switchin	type of switch	front mounted	
design of handle type of the driving mechanism / motor drive Senoral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution Surge voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum • maximum • maximum • maximum • maximum • motor of 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 • at 40 °C / rated value • operating all at AC / rated value operating state / value 63 A operational current • 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 number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 70 totage insulation voltage / rated value operating voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum • maximum for H2 degree of 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 • at 40 °C / rated value • operational current • at 40 °C / rated value 63 A operational current • at 40 °C / rated value 63 A	color / of the actuating element	red	
General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum for the degree of pollution Voltage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value • at AC / rated value • minimum • maximum for HP65 degree of protection NEMA rating 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 • at 40 °C / rated value • 63 A operational current / rated value • 63 A	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 degree of pollution 7 7 7 7 8 8 8 8 8 8 8 8 8	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 operating frequency / maximum degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum • maximum 50 Hz • maximum 50 Hz • 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 • at 40 °C / rated value 63 A operational current • at 40 °C / rated value 63 A	General technical data		
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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 • 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 690 V 690	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 omaximum omaximu	• at AC-23 A / at 690 V	6 000	
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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	
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at AC / rated value operating frequency / rated value ominimum omaximum foo 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 V 190 V 690 V 190 S	surge voltage resistance / rated value	6 kV	
operating frequency / rated value	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 operational current operational current other incomplete on the current of t	at AC / rated value	690 V	
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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 • at 40 °C / rated value 63 A	Protection class		
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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 operational current	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 50 C / rated value at 55 °C / rated value	63 A
at AC / rated value at AC / rated value	63 A
Main circuit	03 A
operational current	00.4
 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	1
number of NO contacts / for auxiliary contacts	1
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	163
product extension / optional • motor drive	No
	No No
voltage trigger	No 2
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
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 / maximum 	21 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit /	fuse gL/gG: 63 A
required	luse gryd. 03 A
for short-circuit protection of the auxiliary switch /	fuse gL/gG: 10 A
required	
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 2,5mm²), 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	110.5 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	No
net weight	426 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	Declaration of



Confirmation





EHC



Declaration of Conformity

Test Certificates

other



Special Test Certificate

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=3LD2504-1TP53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-1TP53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2504-1TP53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications













