# 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

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	front mounted					
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						
<ul> <li>at AC rated value</li> </ul>	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					

	10.4
at AC-23 A at 400 V rated value	43 A
operating power	44 INM
• 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	2
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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use 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	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
at 690 V by gG fuse rated value  let-through current with closed switch	
at 690 V by gG fuse rated value  Iet-through current with closed switch      at 240 V for combination switch + gG fuse maximum	6 kA
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	6 kA 6 kA
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	6 kA
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> <li>l2t value with closed switch</li> </ul>	6 kA 6 kA 6 kA
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> </ul> </li> <li>l2t value with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> </ul> </li> <li>l2t value with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> </ul> </li> <li>l2t value with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> </ul> </li> <li>l2t value with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s
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<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 21 kA2.s fuse gL/gG: 63 A fuse gL/gG: 10 A
<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>permissible</li> </ul> </li> <li>l2t value with closed switch <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> </ul> </li> </ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 21 kA2.s 1 kA2.s
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<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch         <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at</li></ul></li></ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 21 kA2.s fuse gL/gG: 63 A fuse gL/gG: 10 A 63 A
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<ul> <li>at 690 V by gG fuse rated value</li> <li>let-through current with closed switch         <ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>aco</li></ul></li></ul>	6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 21 kA2.s fuse gL/gG: 63 A fuse gL/gG: 10 A 63 A 63 A

UL 508/UL 60947-4-1						
continuous current of upstream fuse according to UL rated		175 A				
value	aportoani laoo aoooran	ig to 02 latoa	1107			
type of fuse according to UL			RK5			
Connections						
	d connectable conducto	or cross				
section solid maximum						
	•		6			
•	anduator aroas sections	for conner	14			
conductor	onductor cross-sections	s for copper				
<ul> <li>solid</li> </ul>			1x (2,535mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		1x (2.516 mm <sup>2</sup> )				
• stranded		1x (2,535mm <sup>2</sup> )				
type of connectable co contacts	onductor cross-sections	for auxiliary				
<ul> <li>solid</li> </ul>				al auxiliary switch 2x (0, 2,5mm²)	75 2,5mm²), 1x 4mm²; fi	ront auxiliary switch 1x
<ul> <li>finely stranded w</li> </ul>	• finely stranded with core end processing		lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²			
stranded				al auxiliary switch 2x (0, 2,5mm²)	75 2,5mm²), 1x 4mm²; fi	ront auxiliary switch 1x
type of electrical connect						
	<ul> <li>for main current circuit</li> </ul>		box terminal			
	for auxiliary contacts		connection terminals			
Mechanical Design						
height			106 r			
width			90 m			
depth			110.5			
type of device			fixed mounting			
fastening method			Built-	in unit fixed-mounted v	ersion	
fastening method	ating					
<ul> <li>4-hole front mour</li> <li>front mounting with</li> </ul>	÷		Yes			
0	front mounting with central attachment		No			
	rail mounting		No			
net weight Environmental conditions		426 g				
<ul> <li>ambient temperature of minimum</li> </ul>	anna oberanon		-25 °	C		
maximum			-25 °C			
ambient temperature of	during storage					
minimum			-25 °C			
maximum			55 °C			
Approvals Certificates						
General Product Appr	roval					
oonoran noodoor Appr						
"	UK CA	<u>Confirmatio</u>	<u>n</u>	Ē		<b>Miscellaneous</b>
	ĒÒ			Q.	(프)	
EG-Konf.	LH			UL	VDE	
General Product Approval	Test Certificates	Marine / Shipp	ing	other		Environment
piovai						
	Type Test Certific-	Type Test Certific-		Miscellaneous	<b>Confirmation</b>	
FAL	ates/Test Report	Lloyd's Register				
LIIL		LIIS				FPD
		0.5				
Environment						
Environmental Con-	Environmental Con-					

Information on the packaging

https://support.industry.siemens <u>com/cs/ww/en/view/109813875</u>

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

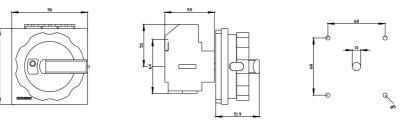
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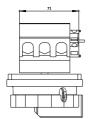
CAx-Online-Generator

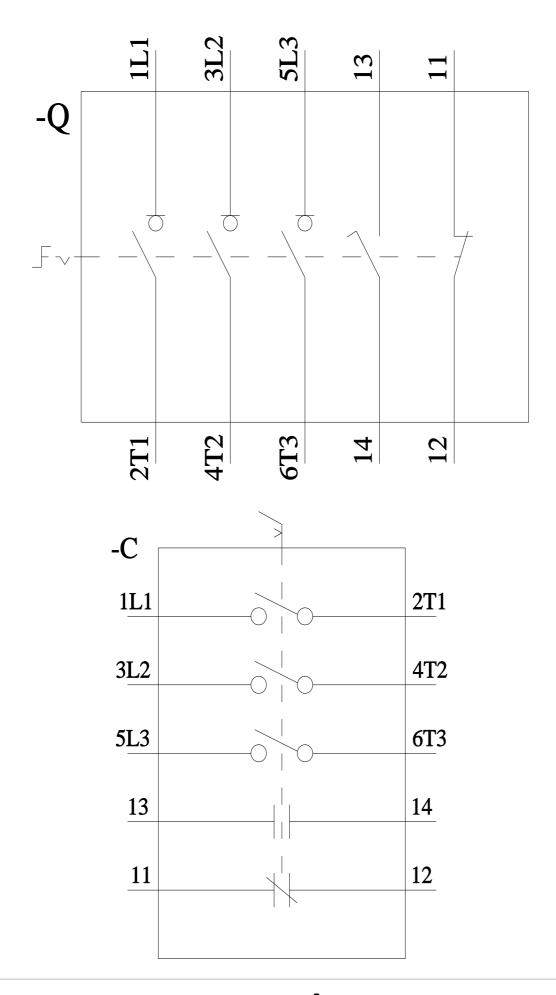
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