## SIEMENS

## Data sheet

## 3LD2254-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	Main 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	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	2
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	1.8 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	32 A
• at AC-21 A at 240 V rated value	32 A
• at AC-21 A at 400 V rated value	32 A
• at AC-21 A at 440 V rated value	32 A
• at AC-23 A at 400 V rated value	22 A

anorating power	
operating power • at AC-23 A at 240 V rated value	6 kW
	12 kW
at AC-23 A at 400 V rated value	12 KW
at AC-23 A at 440 V rated value	
at AC-23 A at 690 V rated value	12 kW
• at AC-3 at 240 V rated value	5.5 kW
• at AC-3 at 400 V rated value	10 kW
• at AC-3 at 690 V rated value	9.5 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
Suitability	
suitability for use	
main switch	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
EMERGENCY OFF switch	No
<ul> <li>safety switch</li> </ul>	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	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	
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	4.5 kA
• at 440 V for combination switch + gG fuse maximum	4.5 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	5 kA
I2t value with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	9 kA2.s
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	9 kA2.s
• at 690 V for combination switch + gG fuse maximum	9 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A
according UL	
	32 \
operational current at AC according to UL 508/UL 60947-4-1 rated value	32 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	20
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	20
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	80 A

AWG number as coded connectable conductor cross section solid maximum       8         •       14         type of connectable conductor cross-sections for copper conductor       1x (1,516mm²)         • solid       1x (1,516mm²)         • finely stranded with core end processing       1x (1,510mm²)         • stranded       1x (1,516mm²)         • finely stranded with core end processing       1x (1,516mm²)         • solid       1x (1,516mm²)         • finely stranded with core end processing       1x (1,516mm²)         • stranded       1x (1,516mm²)         • finely stranded with core end processing       2x (0.75 2.5 mm²), 1x 4 mm²         • solid       2x (0.75 2.5 mm²), 1x 4 mm²         • finely stranded with core end processing       2x (0.75 2.5 mm²), 1x 4 mm²         • for main current circuit       box terminal         • for auxiliary contacts       connecton	type of fuse according to UL	RK5
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<ul> <li>indugi stranded with core end processing</li> <li>2x (0.75 1.5 mm<sup>3</sup>, 1x 2.5 mm<sup>3</sup></li> <li>2x (0.75 2.5 mm<sup>3</sup>, 1x 4 mm<sup>3</sup></li> <li>2x (0.75 25 mm<sup>3</sup>, 1x 4 mm<sup>3</sup></li> <li>2x (0.75 15 mm<sup>3</sup>, 1x 2.5 mm<sup>3</sup>, 1x 2.5 mm<sup>3</sup></li> <li>2x (0.75 15 mm<sup>3</sup>, 1x 2.5 mm<sup>3</sup>, 1x 2.5 mm<sup>3</sup></li> <li>2x (0.75 15 mm<sup>3</sup>, 1x 2.5 m<sup>3</sup>, 1x 2.5 m<sup></sup></li></ul>	type of connectable conductor cross-sections for auxiliary contacts	
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type of electrical connection e or main current foruit for main current forut for main current foruit forum foru forut forum f	stranded	2x (0.75 2.5 mm²), 1x 4 mm²
• for main current circuit       box terminal         • or auxiliary contacts       connection terminals         betratued Design       83 nm         • height       67 nm         width       67 nm         depth       116.5 nm         type of device       fixed mounting         fastening method       Buill-unit fixed-mounted version         • hole front mounting       No         • hole for throunting       No         • hole for throunting       No         • andie for throunting       No         • andie for throunting       No         • andie for throunting       No         • andimounting       223 g         environmental conditions	type of electrical connection	
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lechanical Design height height heigh heig		
height       83 mm         width       67 mm         depth       116.5 mm         type of device       fixed mounting         fastening method       Built-in unit fixed-mounted version         istelling method       No         istelling method       Vers         istelling method       23 g         information of the mounting       No         indimum       25 °C         inminum       -25		
with     67 mm       deph     116.5 mm       type of device     fixed mounting       fastening method     Bull-In unit fixed-mounted version       e-hole front mounting     No       e-air mounting     No       net weight     223 g <b>vironmental conditions</b> -25 °C       ambient temperature during storage		
depth       116.5 mm         type of device       fixed mounting         fastening method       Built-in unit fixed-mounted version         i fastening method       No         i fastening method       No         i fastening method       No         i fastening method       Yee s         i maximum       -25 °C	height	83 mm
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• rail mounting       No         net weight       223 g         invironmental conditions       ambient temperature during operation         • maimum       -25 °C         • maximum       55 °C         ambient temperature during storage       -25 °C         • maximum       55 °C         • porovals Certificates	-	
net weight 223 g invironmental conditions ambient temperature during operation i maimum i mai		Yes
ambient temperature during operation       -25 °C         i maximum       -25 °C         ambient temperature during storage	rail mounting	No
ambient temperature during operation       -25 °C         • maximum       55 °C         ambient temperature during storage       -25 °C         • minimum       -25 °C         • maximum       -25 °C         • portoxals Cortificates	net weight	223 g
<ul> <li>minimum -25 °C</li> <li>maximum 555 °C</li> <li>ambient temperature during storage</li> <li>minimum -25 °C</li> <li>ambient temperature during storage</li> <li>maximum -25 °C</li> <li>maximum -55 °C</li> <li>provals Certificates</li> </ul> General Product Approval           General Product Approval         Confirmation <ul> <li>Confirmation</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>U</li> <li>U</li> <li>Confirmation</li> <li>U</li> <li>U</li></ul>	Environmental conditions	
<ul> <li>iminimum -25 °C</li> <li>iminimum 55 °C</li> <li>ambient temperature during storage</li> <li>iminimum -25 °C</li> <li>iminimum -26 °</li></ul>	ambient temperature during operation	
• maximum       55 ° C         ambient temperature during storage       -25 ° C         • maximum       -25 ° C         • provals Certificates       •         General Product Approval       E         Ceneral Product Approval       Marine / Shipping         General Product Approval       Marine / Shipping         Miscellaneous       E         Emvironment       us         Environmental Con:       Environmental Con:		-25 °C
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3LD22540TK51 Page 3/6

Information on the packaging

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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=3LD2254-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2254-0TK51

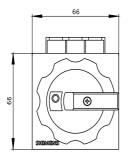
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2254-0TK51

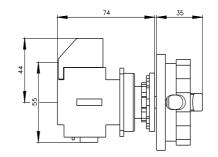
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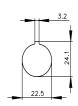
http://www.siemens.com/cax

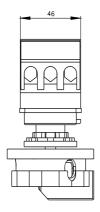
**Tender specifications** 

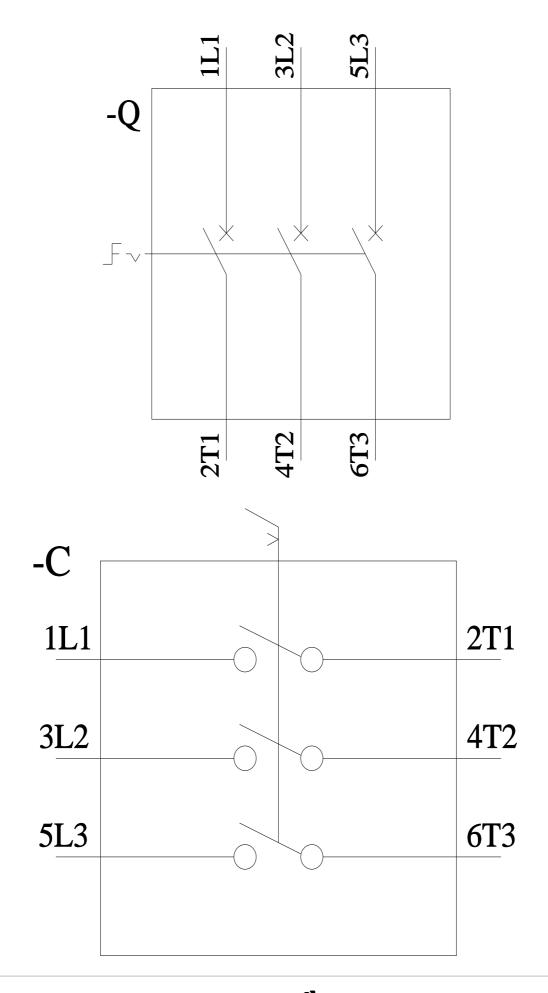
http://www.siemens.com/specifications











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