## **SIEMENS**

Data sheet 3LD2050-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, knoboperated mechanism, black, central mounting 22.5 mm of the handle

Model	
product brand name	SENTRON
product designation	3LD 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	selector switch
color / of the actuating element	black
design of handle	knob-operated mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
size of switch disconnector	1
mechanical service life (switching cycles) / typical	100 000
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	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	0.5 W
Current	
operational current / rated value	16 A
operational current	
<ul> <li>at 40 °C / rated value</li> </ul>	16 A
<ul> <li>at 45 °C / rated value</li> </ul>	16 A

a at EO °C / rotad value	16 A
• at 50 °C / rated value	16 A
at 55 °C / rated value     at AC / rated value	16 A
at AC / rated value	16 A
Main circuit	
operational current	
• at AC-21 / at 690 V / rated value	16 A
• at AC-21 A / at 240 V / rated value	16 A
<ul><li>at AC-21 A / at 400 V / rated value</li></ul>	16 A
• at AC-21 A / at 440 V / rated value	16 A
at AC-23 A / at 400 V / rated value	16 A
operating power	
• at AC-23 A / at 240 V / rated value	4 kW
• at AC-23 A / at 400 V / rated value	8 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
• at AC-23 A / at 690 V / rated value	8 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 400 V / rated value	6 kW
at AC-3 / at 690 V / rated value  Applications alreads	5.5 kW
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts 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	No
• EMERGENCY OF SWITCH	NO
• safety switch	Vas
<ul><li>safety switch</li><li>maintenance/repair switch</li></ul>	Yes Yes
maintenance/repair switch	Yes Yes
maintenance/repair switch  Product details	Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position	
maintenance/repair switch  Product details  product feature / can be locked into OFF position accessories	Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional      motor drive	Yes Yes No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional     motor drive     voltage trigger	Yes Yes No No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional      motor drive	Yes Yes No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional     motor drive     voltage trigger  number of connectable NC contacts / for auxiliary contacts	Yes Yes No No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  Yes  No No 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  Yes  No No 2 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 2 0
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 2 0 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 2 0 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 2 0 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm  50 kA 3 kA 3 kA
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 2 4 6 mm  50 kA 3 kA 3 kA

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 20 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	20 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
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	50 A
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (14mm²)
stranded	1x (16mm²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded / with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	66 mm
width	49 mm
depth	113.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul> <li>4-hole front mounting</li> </ul>	No
front mounting with central attachment	Yes
• rail mounting	No
net weight	192 g
Environmental conditions	
ambient temperature / during operation	07.00
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	25 °C
• minimum	-25 °C
• maximum	55 °C
General Product Approval	





Confirmation





**Miscellaneous** 

**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=3LD2050-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2050-0TK11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2050-0TK11

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications











