## **SIEMENS**

Data sheet 3LD5410-0TK11



SENTRON 3LD5 switch disconnector UL, main switch, 3-pole, approved according to UL 489, UL 60947-4-1 and IEC 60947-3, UL: 100 A, SCCR 65 kA at 480 V AC, operational power @ 480 V AC 3-phase: 60 hp, IEC: 100 A, operational power at AC-23 A at 400 V: 45 kW, floor mounting with door coupling, defeatable rotary operating mechanism, standard, 4-hole mounting of the handle, without tolerance compensation, including terminal covers for the infeed side for the infeed side

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	Floor mounting with door coupling	
design of the actuating element	door-coupling rotary operating mechanism	
color of the actuating element	gray	
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	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		
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	36 W	
Main circuit		
operational current		
<ul> <li>at AC-21 at 690 V rated value</li> </ul>	100 A	
• at AC-21 A at 240 V rated value	100 A	
<ul> <li>at AC-21 A at 400 V rated value</li> </ul>	100 A	
<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	100 A	

at AC-23 A at 400 V rated value	100 A
operating power	100 A
at AC-23 A at 240 V rated value	30 kW
• at AC-23 A at 440 V rated value	45 kW
at AC-23 A at 440 V rated value      at AC-23 A at 690 V rated value	37 kW
	30 kW
at AC-3 at 240 V rated value	
at AC-3 at 400 V rated value	45 kW
at AC-3 at 690 V rated value	30 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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
special product feature	defeatable door-coupling handle
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	3
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	5 7.5 mm
Short circuit	
conditional short-circuit current with line-side fuse	
protection	
<ul> <li>at 440 V by gG fuse rated value</li> </ul>	50 kA
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	16 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	16 kA
at 690 V for combination switch + gG fuse maximum parmissible.	15 kA
permissible	
12t value with closed switch	222 kA2 a
at 240 V for combination switch + gG fuse maximum      at 440 V for combination switch + gC fuse maximum	223 kA2.s
• at 440 V for combination switch + gG fuse maximum	223 kA2.s
at 690 V for combination switch + gG fuse maximum	223 kA2.s
design of the fuse link	5 0 405 4
for short-circuit protection of the main circuit required	Fuse gG: 125 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	125 A
according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	100 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	100 A
operating voltage at AC at 50/60 Hz according to UL 489 rated value	480 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	480 V

active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	60
short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489	65 kA
continuous current of upstream fuse according to UL rated value	100 A
type of fuse according to UL	Class J
Connections	
AWG number as coded connectable conductor cross	
section solid maximum	
•	3
•	4/0
AWG number as coded connectable conductor cross section solid according to UL 489	
• minimum	3
maximum	4/0
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16	
• minimum	3
• maximum	2/0
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16185mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (16150mm²)
stranded	1x (16185mm²)
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
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
Mechanical Design	
height	178 mm
width	113 mm
depth	158 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	V
4-hole front mounting	Yes
front mounting with central attachment     roll mounting.	No No
rail mounting  net weight	
ner weignt	No 1,900 g
Environmental conditions	1 900 g
Environmental conditions	
ambient temperature during operation	1 900 g
ambient temperature during operation • minimum	1 900 g -25 °C
ambient temperature during operation  • minimum  • maximum	1 900 g
ambient temperature during operation • minimum	1 900 g -25 °C
ambient temperature during operation  • minimum  • maximum  ambient temperature during storage	1 900 g -25 °C 55 °C
ambient temperature during operation  • minimum  • maximum  ambient temperature during storage  • minimum	1 900 g  -25 °C  55 °C  -25 °C











Miscellaneous

other Environment

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD5410-0TK11}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5410-0TK11

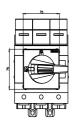
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

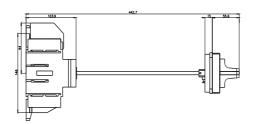
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5410-0TK11

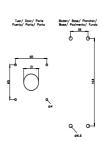
**CAx-Online-Generator** 

Tender specifications

http://www.siemens.com/specifications









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