## **SIEMENS**

Data sheet 3LD2730-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 100 A, operating power / at AC-23 A 400 V: 37 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	EMERGENCY-STOP switch
display version / for switch position indicator manual	1 ON - 0 OFF
operation	
design of the operating mechanism	selector switch
design of handle	knob-operated mechanism, red/yellow
type of the driving mechanism / motor drive	No

General technical data	
number of poles	3
type of device	fixed mounting
type of switch	DIN-rail mounting
size of switch disconnector	4
mechanical service life (switching cycles)	
• typical	100 000
electrical endurance (switching cycles)	
● at AC-23 A / at 690 V	6 000

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	64 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	64 kA2.s	
operating frequency / maximum	50 1/h	
Voltage		
insulation voltage / rated value	690 V	
surge voltage resistance / rated value	6 kV	
operating current / at AC / rated value	100 A	
operating voltage		
• at AC / at 50/60 Hz / rated value	690 V	
Protection class		
protection class IP	IP40	
protection class IP / on the front	IP40	
Dissipation		
power loss [W]		
• for rated value of the current / at AC / in hot	7.5 W	
operating state / per pole		
• per conductor / typical	7.5 W	
Current		
operating current		
• at AC-23 A / at 690 V / rated value	34 A	
• at AC-23 A / at 400 V / rated value	70 A	
• at AC-22 A / at 690 V / rated value	100 A	
• at AC-21 / at 690 V / rated value	100 A	
• at AC-21 A / at 240 V / rated value	100 A	
• at AC-21 A / at 440 V / rated value	100 A	
• at AC-22 A / at 240 V / rated value	100 A	
• at AC-22 A / at 440 V / rated value	100 A	
• at AC-23 A / at 240 V / rated value	70 A	
• at AC-23 A / at 440 V / rated value	70 A	
operating current / of upstream fuse / rated value	100 A	
let-through current / with closed switch		
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	10 kA	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	10 kA	
short-time withstand current (lcw)		
• limited to 1 s / rated value	2 000 A	
• at 690 V / limited to 1 s / rated value	2 000 A	
Main circuit		

initial value     initial	operating frequency		
operating power  • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 590 V / rated value  • at AC-3 / at 590 V / rated value  operating current / rated value  operating current / rated value  operating current / rated value  operating voltage / of auxiliary contacts  number of NC contacts / for auxiliary contacts  operating voltage / of auxiliary contacts / at AC / soo V  maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  suitability	• initial value	50 Hz	
• at AC-23 A / at 420 V / rated value • at AC-23 A / at 400 V / at 50/60 Hz / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 460 V / rated value • at AC-3 A / at 50/00 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 690 V / rated value • at AC-3 / at 690 V / rated value  • at	• full-scale value	60 Hz	
at AC-23 A / at 400 V / at 50/60 Hz / rated value at AC-23 A / at 400 V / rated value at AC-23 A / at 400 V / rated value at AC-23 A / at 490 V / rated value at AC-23 A / at 690 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value coperating current / rated value be at AC-3 / at 690 V / rated value coperating current / rated value coperating current / rated value conditions of NC contacts / for auxiliary contacts coperating voltage / of the auxiliary contact / rated value continuous current / of the auxiliary contact / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary switch / rated value continuous current / of the auxiliary contacts con	operating power		
at AC-23 A / at 400 V / rated value at AC-23 A / at 400 V / rated value at AC-23 A / at 490 V / rated value at AC-23 A / at 490 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 490 V / rated value at AC-3 / at 490 V / rated value 22 kW operating current / rated value 100 A  Auxiliary circuit number of CC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts 0 operating voltage / of auxiliary contacts 0 operating voltage / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value  Sultability suitability suitability for use  main switch  yes  main switch  yes  maintenance/repair switch  Yes  safety switch yes  Appearance color / of the actuating element  red  Product details  product function / can be locked into OFF position  number of bracket locks / maximum  approduct extension / optional  motor drive  No	• at AC-23 A / at 240 V / rated value	18.5 kW	
at AC-23 A / at 480 V / rated value at AC-23 A / at 690 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 240 V / rated value 22 kW operating current / rated value 100 A  Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of Product details 0 product function / can be locked into OFF position 0 product function / can be locked into OFF position 0 product extension / optional 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive 0 number of bracket locks / maximum 0 motor drive	• at AC-23 A / at 400 V / at 50/60 Hz / rated value	37 kW	
at AC-23 A at 590 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 400 V / rated value 22 kW operating current / rated value 100 A  Auxiliary circuit number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts operating voltage / of auxiliary contacts / 0 operating voltage / of auxiliary contacts / 10 A  value insulation voltage / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Suitability suitability suitability suitability suitability auxiliary switch Seafety swi	• at AC-23 A / at 400 V / rated value	37 kW	
at AC-3 / at 240 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 690 V / rated value 22 kW operating current / rated value 100 A  Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of the auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Sultability suitability suitability for use main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Yes maintenance/repair switch Yes maintenance/repair switch Yes maintenance/repair switch Yes position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive No	• at AC-23 A / at 440 V / rated value	37 kW	
at AC-3 / at 400 V / rated value at AC-3 / at 690 V / rated value 22 kW operating current / rated value 100 A  Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 outperating voltage / of auxiliary contacts 0 operating voltage / of auxiliary contacts 0 operating voltage / of auxiliary contacts 0 operating voltage / of auxiliary contacts / 500 V  maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Sultability suitability for use  main switch switch disconnector EMERGENCY OFF switch safety switch and yes maintenance/repair switch  Appearance color / of the actuating element  red  Product details  product details product function / can be locked into OFF position number of bracket locks / maximum product extension / optional motor drive No	• at AC-23 A / at 690 V / rated value	30 kW	
at AC-3 / at 690 V / rated value  operating current / rated value  100 A  Auxiliary circuit  number of CO contacts / for auxiliary contacts  number of NC contacts / for auxiliary contacts  operating voltage / of auxiliary contacts  operating voltage / of auxiliary contacts / at AC / maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  Suitability  suitab	• at AC-3 / at 240 V / rated value	18.5 kW	
operating current / rated value  Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts / 500 V maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Suitability sui	• at AC-3 / at 400 V / rated value	30 kW	
Auxillary circuit number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Suitability suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Appearance color / of the actuating element  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No	• at AC-3 / at 690 V / rated value	22 kW	
number of CO contacts / for auxiliary contacts  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  operating voltage / of auxiliary contacts / 500 V  maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  insulation voltage / of the auxiliary switch / rated value  Suitability  suitability  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • anintenance/repair switch  Appearance  color / of the actuating element  Product details  • product function / can be locked into OFF position  number of bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No	operating current / rated value	100 A	
number of CO contacts / for auxiliary contacts  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  operating voltage / of auxiliary contacts  operating voltage / of auxiliary contacts / at AC /  maximum  continuous current / of the auxiliary contact / rated  value  insulation voltage / of the auxiliary switch / rated  value  Suitability  suitability for use  • main switch  • switch disconnector  • EMERGENCY OFF switch  • safety switch  • maintenance/repair switch  Appearance  color / of the actuating element  Product details  • product function / can be locked into OFF  position  number of bracket locks / maximum  hasp thickness / of the bracket locks / maximum  product extension / optional  • motor drive  No	Auxiliant circuit		
number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts / 500 V maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Suitability suitability suitability  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  • maintenance/repair switch  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No		0	
number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value  10 A value  Suitability suitability suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • maintenance/repair switch  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  10 A 10 A 110			
operating voltage / of auxiliary contacts / at AC / maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  Suitability  suitability for use  • main switch • switch disconnector • Yes • switch disconnector • Yes • safety switch • safety switch • maintenance/repair switch  Yes  Appearance  color / of the actuating element  Product details  • product details  • product details  • product details / Yes  hasp thickness / of the bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No			
maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  500 V  Suitability  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Appearance  color / of the actuating element  Product details  • product details  • product function / can be locked into OFF position  number of bracket locks / maximum hasp thickness / of the bracket locks / maximum  product extension / optional • motor drive  10 A  200 V  200			
value  insulation voltage / of the auxiliary switch / rated value  Suitability  suitability  suitability for use  • main switch  • switch disconnector  • switch disconnector  • EMERGENCY OFF switch  • safety switch  • maintenance/repair switch  Appearance  color / of the actuating element  Product details  • product function / can be locked into OFF  position  number of bracket locks / maximum  hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional  • motor drive  No			
insulation voltage / of the auxiliary switch / rated value  Suitability suitability suitability for use  • main switch • switch disconnector • switch disconnector • safety switch • safety switch • maintenance/repair switch  Appearance color / of the actuating element  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  500 V  Yes  Yes  Yes  Yes  Yes  Product details  6 mm  No	continuous current / of the auxiliary contact / rated	10 A	
Suitability suitability for use	value		
Suitability suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Appearance color / of the actuating element  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No		500 V	
suitability for use  • main switch • switch disconnector • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Appearance color / of the actuating element  Product details • product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive  No	value		
main switch switch disconnector switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch  Appearance color / of the actuating element  Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive  Pes  Yes  Yes  Yes  Amm Amm Amm Amm Amm Amm And Amm	Suitability		
switch disconnector     Switch disconnector     EMERGENCY OFF switch     safety switch     maintenance/repair switch  Appearance color / of the actuating element  Product details     product function / can be locked into OFF position  number of bracket locks / maximum  hasp thickness / of the bracket locks / maximum  product extension / optional     motor drive  No	suitability for use		
EMERGENCY OFF switch     safety switch     maintenance/repair switch  Appearance color / of the actuating element  Product details     product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum hasp thickness / of the bracket locks / maximum product extension / optional     motor drive  No	main switch	Yes	
safety switch     maintenance/repair switch  Appearance  color / of the actuating element  Product details     product function / can be locked into OFF position  number of bracket locks / maximum  hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional     motor drive  No	switch disconnector	Yes	
maintenance/repair switch  Appearance  color / of the actuating element  Product details      product function / can be locked into OFF yes position  number of bracket locks / maximum  hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional  motor drive  No	<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes	
Appearance color / of the actuating element  Product details  • product function / can be locked into OFF yes position  number of bracket locks / maximum  hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional • motor drive  red  Yes  Yes  6 mm	• safety switch	Yes	
red  Product details  • product function / can be locked into OFF yes position  number of bracket locks / maximum 2  hasp thickness / of the bracket locks / minimum 4 mm  hasp thickness / of the bracket locks / maximum 6 mm  product extension / optional  • motor drive  No	<ul> <li>maintenance/repair switch</li> </ul>	Yes	
red  Product details  • product function / can be locked into OFF yes position  number of bracket locks / maximum 2  hasp thickness / of the bracket locks / minimum 4 mm  hasp thickness / of the bracket locks / maximum 6 mm  product extension / optional  • motor drive  No	Appearance		
<ul> <li>product function / can be locked into OFF position</li> <li>number of bracket locks / maximum</li> <li>hasp thickness / of the bracket locks / minimum</li> <li>hasp thickness / of the bracket locks / maximum</li> <li>motor drive</li> </ul> Yes Yes Yes OF O		red	
<ul> <li>product function / can be locked into OFF position</li> <li>number of bracket locks / maximum</li> <li>hasp thickness / of the bracket locks / minimum</li> <li>hasp thickness / of the bracket locks / maximum</li> <li>motor drive</li> </ul> Yes Yes Yes OF O	Product details		
position  number of bracket locks / maximum  hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional  motor drive  o motor drive		Yes	
hasp thickness / of the bracket locks / minimum  hasp thickness / of the bracket locks / maximum  product extension / optional  motor drive  No			
hasp thickness / of the bracket locks / maximum 6 mm  product extension / optional  • motor drive No	number of bracket locks / maximum	2	
product extension / optional  • motor drive  No	hasp thickness / of the bracket locks / minimum	4 mm	
• motor drive No	hasp thickness / of the bracket locks / maximum	6 mm	
	product extension / optional		
• voltage trigger No	• motor drive	No	
	voltage trigger	No	

Short circuit		
conditional short-circuit current / with line-side fuse		
protection		
• at 690 V / by gG fuse / rated value	50 kA	
according UL		
operating current / at AC / according to UL 508/UL	100 A	
60947-4-1 / rated value		
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	60	
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	75	
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	10 kA	
continuous current / of upstream fuse / according to UL / rated value	200 A	
type of fuse / according to UL	RK5	
Number		
number of connectable NC contacts / for auxiliary	2	
contacts / attachable / maximum		
number of connectable NO contacts / for auxiliary	4	
contacts / attachable / maximum		
number of connectable CO contacts / for auxiliary	0	
contacts / attachable / maximum		
Connections		
AWG number / as coded connectable conductor		
cross section / solid		
• maximum	1	
• minimum	12	
type of connectable conductor cross-sections / for		
copper conductor	4 (4 50 3)	
• solid	1x (450mm²)	
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (435mm²)	
• stranded	1x (450mm²)	
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	

## Requirements design of the fuse link fuse gL/gG: 100 A • for short-circuit protection of the main circuit / • for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A / required Mechanical Design height 83 mm width 71 mm depth 97 mm mounting type Built-in unit fixed-mounted version No • mounting type / front mounting with 4-hole attachment No • mounting type / front mounting with central attachment Yes • mounting type / rail mounting net weight 363 g ambient temperature / during operation -25 °C • minimum 55 °C • maximum ambient temperature / during storage / minimum -25 °C Certificates reference code S • acc. to DIN EN 61346-2 SF • acc. to DIN EN 81346-2 **General Product Approval Declaration of** Conformity

(W)



LRS





Miscellaneous



Test Certific- ates	Shipping Ap- proval	other
Special Test Certificate	Lloyd's Register	Environmental Con- firmations

#### 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=3LD2730-0TK13

# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2730-0TK13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2730-0TK13">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2730-0TK13</a>

## **CAx-Online-Generator**

http://www.siemens.com/cax

#### **Tender specifications**

http://www.siemens.com/specifications











