## **SIEMENS**

Data sheet 3LD5000-0TK13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 30A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 20hp, IEC: 32A, Operating power at AC-23A at 400V: 15kW, floor mounting with direct handle, red/yellow, incl. terminal covers for the infeed side

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	Floor mounting with direct drive	
design of the actuating element	selector switch	
color of the actuating element	red	
design of handle	knob-operated mechanism, red/yellow	
type of the driving mechanism motor drive	No	
General technical data		
number of poles	3	
size of switch disconnector	1	
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	
Protection class		
protection class IP	IP00	
protection class IP on the front	IP00	
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	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	32 A	
operating power		
• at AC-23 A at 240 V rated value	7.5 kW	
• at AC-23 A at 440 V rated value	15 kW	
• at AC-23 A at 690 V rated value	19 kW	
• at AC-3 at 240 V rated value	7.5 kW	
• at AC-3 at 400 V rated value	15 kW	

• at AC-3 at 690 V rated value	15 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
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	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	2
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	4
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	1
hasp thickness of the bracket locks	4 6 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>	6 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	6 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	6 kA
l2t value with closed switch	
at 240 V for combination switch + gG fuse maximum	12 kA2.s
• at 440 V for combination switch + gG fuse maximum	12 kA2.s
• at 690 V for combination switch + gG fuse maximum	12 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	Fuse gG: 40 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A
according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	30 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	30 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	20
short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489	50 kA
continuous current of upstream fuse according to UL rated value	30 A
type of fuse according to UL	Class CC, J
Connections	
AWG number as coded connectable conductor cross section	
solid	

height 96 mm  width 60 mm  depth 92 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight 270 g	maximum	6			
solid according to UL 489         14           • minimum         14           • maximum         6           AWG number as coded connectable conductor cross sections solid according to CSA C22 No.5-16         Imaximum           • minimum         12           • maximum         8           type of connectable conductor cross-sections for copper conductor         Ix (2,535mm²)           • solid         1x (2,535mm²)           • finely stranded with core end processing         1x (2,535mm²)           • 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           • finely stranded with core end processing         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 auxiliary contacts         box terminal           • for auxiliary contacts         connection terminals           Mobehnical Design         Box mm           width         60 mm           depth         92 mm           width         60 mm           depth         92 mm           yes of evice         fixed mounting           • A-hole front mounting         No           • A-hole front mounting with cen	• minimum	14			
MWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16     minimum     maximum					
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16  iminimum imaximum  type of connectable conductor cross-sections for copper conductor  solid ifinely stranded with core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow the core end processing is stranded if no yellow terminal is one termi	• minimum	14			
solid according to CSA C22.2 No. 5-16         12           minimum         8           type of connectable conductor cross-sections for copper conductor         ****Conductor************************************	maximum	6			
type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid sinely stranded with core end processing stranded stranded stranded stranded stranded stranded solid sinely stranded with core end processing stranded stranded stranded stranded stranded stranded stranded solid stranded stranded solid					
type of connectable conductor cross-sections for copper conductor  solid infinely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid infinely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid infinely stranded with core end processing stranded type of electrical connection of or main current circuit for auxiliary contacts connection terminals  Mechanical Dosign  height get device fixed mounting fastening method statening method statening method statening method of A-hole front mounting of front mounting with central attachment or rail mounting infinely stranded with core end processing ambient temperature during operation ominimum strain function temperature during storage ominimum email mountimum email	• minimum	12			
conductor  solid	• maximum	8			
ifinely stranded with core end processing stranded stran					
stranded 1x (2,5.35mm²)  type of connectable conductor cross-sections for auxiliary contacts  solid 2x (0.75 2.5 mm²), 1x 4 mm² finely stranded with core end processing 2x (0.75 2.5 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 connection terminals  Mochanical Design  Height 96 mm  width 60 mm  depth 92 mm  type of device fixed mounting fastening method Built-in unit fixed-mounted version  fastening method front mounting with central attachment No e rail mounting with central attachment Yes net weight 270 g  Environmental conditions  ambient temperature during operation minimum -25 °C maximum 55 °C  minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C minimum -25 °C	• solid	1x (2,535mm²)			
type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing • stranded 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 • for auxiliary contacts • for auxiliary contacts • connection terminals  ### Moderate	<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)	1x (2.516 mm²)		
contacts  • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • stranded • for auxillary contacts  connection terminals  Wochanical Design  height • gr mm  depth • gr mm  stranded • gr mm  type of device fixed mounting fastening method • 4-hole front mounting with central attachment • rail mounting  net weight  processing  entire memarature during operation • minimum • maximum • solid • 2x (0.75 2.5 mm²), 1x 4 mm² • 2x (0.75 2.5 mm²), 1x 2 mm² • 2x (0.75 2.5 mm²), 1x 2 mm² • 2x (0.75 1.5 mm²), 1x 2 mm² • 2x (0.75 1.5 mm²), 1x 4 mm² • 2x (0.75 1.5 mm²), 1x 2 mm² • 2x (0.75 1.5 mm²), 1x 4 mm² • 2x (0.75 1.5 mm²), 1x 4 mm² • 2x (0.75 1.5 mm²), 1x 2 mm² • 2x (0.75 1.5 mm²), 1x 4 mm² • 2x (0.75 1.5 mm²	• stranded	1x (2,535mm²)	1x (2,535mm²)		
• finely stranded with core end processing • stranded 2x (0.75 1.5 mm²), 1x 2.5 mm²  type of electrical connection • for main current circuit • for auxiliary contacts  box terminal • for auxiliary contacts  box terminals  ### Connection terminals  ### Machanical Design  height  ### 60 mm  ### depth  ### 192 mm  ### type of device  ### fixed mounting  ### satening method  ### 4-hole front mounting  ### of mounting with central attachment  ### arail mounting  ### real mounting  ### arail mounting  ### arail mounting  ### 1270 g  ### Environmental conditions  ### ambient temperature during operation  ### maximum  ### 155 °C  ### amainum  ### 155 °C  ### amainum  ### 155 °C  ### amainum  ### 125 °C  ### amainum  ### 155 °C  ###					
stranded 2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection     for main current circuit box terminal connection terminals  Wechanical Design  height 96 mm  width 60 mm  depth 92 mm  type of device fixed mounting Built-in unit fixed-mounted version  fastening method Built-in unit fixed-mounted version  fastening method No     front mounting with central attachment No     rail mounting Yes  net weight 270 g  Environmental conditions  ambient temperature during operation     minimum -25 °C     maximum 55 °C  ambient temperature during storage     minimum -25 °C     maximum 55 °C	• solid	2x (0.75 2.5 mm²), 1x 4 mm²			
type of electrical connection	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²			
• for main current circuit • for auxiliary contacts  Mechanical Design  height  96 mm  width 60 mm  depth ype of device fastening method fastening method  • front mounting with central attachment • rail mounting  net weight  270 g  Environmental conditions  ambient temperature during operation • minimum • 55 °C  ambient temperature during storage • minimum • minimum • 25 °C • maximum • minimum • 55 °C	stranded	2x (0.75 2.5 mm²), 1x 4 mm²			
• for auxiliary contacts  Mechanical Design  height 96 mm  width 60 mm  depth 92 mm type of device fixed mounting fastening method • 4-hole front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • minimum • 55 °C  ambient temperature during storage • minimum • minimum • 25 °C • maximum • maximum • 55 °C	type of electrical connection				
height 96 mm width 60 mm depth 92 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method  • 4-hole front mounting No • front mounting with central attachment No • rail mounting  net weight 270 g  Environmental conditions  ambient temperature during operation • minimum • maximum  - 25 °C ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C  55 °C	for main current circuit	box terminal			
height 96 mm  width 60 mm  depth 92 mm  type of device fixed mounting fastening method Built-in unit fixed-mounted version  • 4-hole front mounting No • front mounting with central attachment No • rail mounting Yes  net weight 270 g  Environmental conditions  ambient temperature during operation • minimum • maximum 55 °C  ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C  ambient temperature during storage • minimum • -25 °C	<ul> <li>for auxiliary contacts</li> </ul>	connection terminals			
width depth 92 mm type of device fixed mounting fastening method  e 4-hole front mounting e front mounting with central attachment e rail mounting  fastening method  e 270 g	Mechanical Design				
depth 92 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method	height	96 mm			
type of device fixed mounting  fastening method  e 4-hole front mounting  front mounting with central attachment  e rail mounting  ret weight  Environmental conditions  ambient temperature during operation  e maximum  fastening method  No  No  Ves  270 g  Environmental conditions  ambient temperature during operation  e maximum  55 °C  ambient temperature during storage  e minimum  -25 °C  store  -25 °C  store  -25 °C  -25 °C	width	60 mm			
fastening method  fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • maximum  • maximum  -25 °C  ambient temperature during storage • minimum  -25 °C  -25 °C  -25 °C  -25 °C	depth	92 mm			
fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • minimum • maximum  55°C  ambient temperature during storage • minimum • minimum -25°C  ambient temperature during storage • minimum -25°C  55°C	type of device	fixed mounting			
4-hole front mounting     front mounting with central attachment     rail mounting     Yes  net weight     270 g  Environmental conditions  ambient temperature during operation     minimum	fastening method	Built-in unit fixed-mounted version			
• front mounting with central attachment     • rail mounting  net weight  270 g  Environmental conditions  ambient temperature during operation     • minimum     • maximum  55 °C  ambient temperature during storage     • minimum     • minimum     • 55 °C  ambient temperature during storage     • minimum     • 25 °C  55 °C	fastening method				
<ul> <li>◆ rail mounting</li> <li>Net weight</li> <li>Environmental conditions</li> <li>ambient temperature during operation</li> <li>◆ minimum</li> <li>★ maximum</li> <li>★ minimum</li> <li>★ minimum</li> <li>★ minimum</li> <li>★ minimum</li> <li>★ minimum</li> <li>★ minimum</li> <li>★ maximum</li> <li>★ minimum</li> <li>★ maximum</li> <li>★ S ° C</li> </ul>	<ul> <li>4-hole front mounting</li> </ul>	No			
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  • maximum  55°C	<ul> <li>front mounting with central attachment</li> </ul>	No			
ambient temperature during operation      minimum	rail mounting	Yes			
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  amaximum  -25 °C  55 °C	net weight	270 g			
<ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	Environmental conditions				
<ul> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	ambient temperature during operation		_		
ambient temperature during storage	• minimum	-25 °C			
<ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	• maximum	55 °C			
• maximum 55 °C	ambient temperature during storage				
	• minimum	-25 °C	-25 °C		
General Product Approval Declaration of Conformity	• maximum	55 °C			
	General Product Approval		Declaration of Conformity		



Confirmation









## other

Miscellaneous Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.  $\label{eq:continuous}$ 

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD5000-0TK13

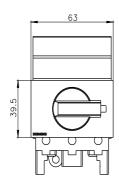
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD5000-0TK13

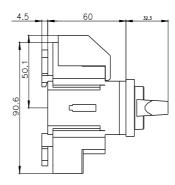
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5000-0TK13

**CAx-Online-Generator** 

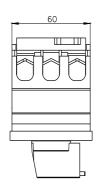
Tender specifications

http://www.siemens.com/specifications









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