## **SIEMENS**

Data sheet 3LD5000-0TK11



SENTRON 3LD5 switch disconnector UL, main switch, 3-pole, approved according to UL 489, UL 60947-4-1 and IEC 60947-3, UL: 30 A, SCCR 50 kA at 480 V AC, operational power @ 480 V AC 3-phase: 20 hp, IEC: 32 A, operational power at AC-23 A at 400 V: 15 kW, floor mounting with direct operating mechanism, black, 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 direct drive
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 (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	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	
<ul> <li>at AC-21 at 690 V rated value</li> </ul>	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
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	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
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	7.5 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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
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	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
<ul> <li>motor drive</li> </ul>	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	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	
at 440 V by gG fuse rated value	50 kA
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
at 240 V for combination switch + gG fuse maximum	6 kA
• at 440 V for combination switch + gG fuse maximum	6 kA
at 690 V for combination switch + gG fuse maximum permissible	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

value         Class CC, J           Ownections         Class CC, J           AWG number as coded connectable conductor cross section solid maximum         6           • • 14         14           AWG number as coded connectable conductor cross section solid according to UL 489         14           • minimum         14           • maximum         6           • minimum         12           • minimum         12           • minimum         8           type of connectable conductor cross-sections for copper conductor         2           • minimum         12           • minimum         8           type of connectable conductor cross-sections for copper conductor         2           • finely stranded with core end processing         1x (2,535mm²)           • 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           • finely stranded with core end processing         2x (0.75 2.5 mm²), 1x 4 mm²           • for main current circuit         box terminal           • for main current circuit         box terminal           • for main current circuit	UL 508/UL 60947-4-1 and UL 489 continuous current of upstream fuse according to UL rated	30 A	
AWG number as coded connectable conductor cross section sold maximum  • 14  AWG number as coded connectable conductor cross section sold according to UL 489  • minimum  • maximum  • sold  • finely standed with core end processing • stranded  • finely standed with core end processing • stranded  • sold • finely standed with core end processing • stranded  • finely standed with core end processing • stranded  • finely standed with core end processing • stranded  • for onnectable conductor cross-sections for auxiliary contacts  • sold • finely standed with core end processing • stranded  • for onnectable conductor cross-sections for auxiliary contacts  • sold • finely standed with core end processing • stranded  • for onnectable conductor cross-sections for auxiliary contacts  • sold • finely standed with core end processing • stranded  • for on auxiliary contacts • for on througing • finely finel	· · · · · · · · · · · · · · · · · · ·		
AWG number as coded connectable conductor cross section solid maximum  • • 14  AWG number as coded connectable conductor cross section solid according to UL 489  • minimum	type of fuse according to UL	Class CC, J	
■	Connections		
MVG number as coded connectable conductor cross section solid according to UL 489   minimum			
AWG number as coded connectable conductor cross section solid according to UL 489  • minimum • maximum  • maximum  • maximum  • minimum • maximum  • maximum  • maximum  • solid according to CSA C22.2 No. 5-16  • minimum • maximum  • solid according to CSA C22.2 No. 5-16  • minimum • maximum  • solid • for connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary  type of connectable conductor cross-sections for auxiliary  • stranded  type of connectable conductor cross-sections for auxiliary  e stranded  type of connectable conductor cross-sections for auxiliary  e finely stranded with core end processing • stranded  type of electrical connection • for maic current circuit • for auxiliary contacts  • for auxiliary cont	•	6	
section solid according to UL 489         14           • minimum         14           • maximum         6           AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16         12           • minimum         12           • minimum         12           • minimum         12           • maximum         24           • maximum         12           • 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         96 mm           • for auxiliary contacts         92 mm           • for auxiliary contacts         98 mm           • for auxiliary contacts	•	14	
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16  • minimum • maximum  vipe of connectable conductor cross-sections for copper • solid • finely stranded with core end processing • stranded  * finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • for main current circuit • for and processing • finely stranded			
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16  iminimum	• minimum	14	
section solid according to CSA C22.2 No. 5-16  • minimum	maximum	6	
type of connectable conductor cross-sections for copper conductor         type of connectable conductor cross-sections for copper conductor           • solid         1x (2.535mm²)           • finely stranded with core end processing stranded         1x (2.535mm²)           • solid         2x (0.752.5 mm²), 1x 4 mm²           • solid         2x (0.752.5 mm²), 1x 4 mm²           • sinely stranded with core end processing         2x (0.751.5 mm²), 1x 2.5 mm²           • stranded         2x (0.752.5 mm²), 1x 4 mm²           type of electrical connection         2x (0.752.5 mm²), 1x 4 mm²           • for main current circuit         5x terminal           • for awaliiary contacts         connection terminals           • for awaliiary contacts         6x mm²           • for awaliiary contacts         96 mm           width         90 mm           • feethanical Design         92 mm           vige of device         fixed mounting           • fastening method         pall-in unit fixed-mounted version           • 4-hole front mounting         No           • 1-hole front mounting with central attachment         No           • rail mounting         2x 9           • rail mounting         2x 6°           • minimum         2x 5°           • minimum			
type of connectable conductor cross-sections for copper conductor         (2,535mm²)           • solid         1x (2,535mm²)           • finely stranded with core end processing         1x (2,535mm²)           • type of connectable conductor cross-sections for auxiliary contacts         2x (0.75 2.5 mm²), 1x 4 mm²           • solid         2x (0.75 2.5 mm²), 1x 4 mm²           • solid of finely stranded with core end processing of stranded         2x (0.75 2.5 mm²), 1x 4 mm²           • stranded of finely stranded with core end processing of stranded or for main current circuit         2x (0.75 2.5 mm²), 1x 4 mm²           • for main current circuit         box terminal           • for auxiliary contacts         box terminal           • for auxiliary contacts         96 mm           • dething the stranded of electrical connection terminals         92 mm           • for auxiliary contacts         92 mm           • for auxiliary contacts         96 mm           • for auxiliary contacts         96 mm           • for auxiliary contacts         96 mm           • for for auxiliary contacts         92 mm           • for for auxiliary contacts         for main munting           • for for mounting with central attachment         No           • rail mounting         yes           • rail mounting         yes	• minimum	12	
conductor         1x (2,535mm²)           • filiely stranded with core end processing         1x (2,535mm²)           • stranded         1x (2,535mm²)           type of connectable conductor cross-sections for auxiliary contacts         2x (0.75 2,5 mm²), 1x 4 mm²           • solid         2x (0.75 2,5 mm²), 1x 4 mm²           • stranded with core end processing         2x (0.75 2,5 mm²), 1x 4 mm²           • type of electrical connection         5 verifical posting           • for auxiliary contacts         connection terminals           • for auxiliary contacts         connection terminals           • for auxiliary contacts         96 mm           • for auxiliary contacts         60 mm           • depth         92 mm           • type of device         fixed mounting           • fastening method         Built-in unit fixed-mounted version           • 4-hole front mounting         No           • 4-hole front mounting with central attachment         No           • real mounting         Yes           • weight         70 g           Extrinsimum         -25 °C           • minimum         -25 °C           • minimum         -25 °C           • minimum         -25 °C           • minimum         -25 °C     <	maximum	8	
• finely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxilliary contacts  • solid • finely stranded with core end processing • stranded  initial processing • stranded  initial processing • stranded with core end processing • stranded  type of electrical connection • for main current circuit • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for main current circuit • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for main current circuit • for auxiliary contacts  • for for main current circuit • for for main current circ			
stranded         1x (2,535mm²)           type of connectable conductor cross-sections for auxiliary contacts         2x (0.75 2.5 mm²), 1x 4 mm²           e solid         2x (0.75 1.5 mm²), 1x 2.5 mm²           e stranded         2x (0.75 2.5 mm²), 1x 4 mm²           type of electrical connection         50 x terminal           e for main current circuit         box terminals           for main current circuit         box terminals           e for nauxiliary contacts         connection terminals           Methanical Design           beight         96 mm           width         60 mm           depth         92 mm           type of device         fixed mounting           fastening method         Built-in unit fixed-mounted version           fastening method         Built-in unit fixed-mounted version           e forth mounting with central attachment         No           e front mounting with central attachment         No           e rail mounting         270 g           environmental conditions           environmental conditions           environmental conditions           environmental conditions           e minimum         -25 °C           e minimum         -25 °C	• solid	1x (2,535mm²)	
type of connectable conductor cross-sections for auxiliary contacts  Stolid Sto	<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)	
contacts  • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded  type of electrical connection • for main current circuit • for auxiliary contacts  box terminal • for auxiliary contacts  box terminals  betalting the type of electrical connection • for main current circuit • for auxiliary contacts  box terminals  betalting the type of electrical connection  depth  96 mm  width  depth  99 mm  type of device fixed mounting  fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  • front mounting with central attachment • rail mounting  results the terminal conditions  ambient temperature during operation • minimum • 25°C  ambient temperature during storage • minimum • minimum • 25°C • minimum • minimum • minimum • 25°C • minimum • minim		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  for auxiliary contacts  box terminal  box terminal  box terminal  box terminals  connection terminals  for auxiliary contacts  for auxiliary contacts  box terminal  box terminal  box terminal  box terminals  for auxiliary contacts  box terminals  for maximum  per maximum  2x (0.75 1.5 mm²), 1x 2.5 mm²  box termi², 1x 4 mm²  connection m²  connection terminals  box terminal  box terminals  for mm  for mm  per mm  per mm  per mm², 1x 2.5 mm²  per mm², 1x 4 mm²  box terminal  box terminals  for mm  per mm  per mm  per mm², 1x 2.5 mm², 1x 4 mm²  box terminal  box terminals  for mm², 1x 4 mm²  box terminals  for maximals  per mm², 1x 4 mm²  box terminals  per mm², 1x 4 mm²  box terminals  per mm², 1x 4 mm²  box terminals  per mm², 1x 4 mm²			
type of electrical connection	• solid		
type of electrical connection	<ul> <li>finely stranded with core end processing</li> </ul>		
• for main current circuit • for auxiliary contacts connection terminals  Acchanical Design  Height 96 mm  width 60 mm  depth type of device fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  real mounting  met weight  ambient temperature during operation • minimum • maximum  • minimum • 55 °C  ambient temperature during storage • minimum • minimum • minimum • 25 °C • maximum • minimum • minimum • 25 °C • maximum • minimum • minimum • minimum • 25 °C • maximum • minimum • minimum • minimum • 25 °C • maximum • minimum • minimum • minimum • 25 °C • maximum • minimum • minimum • 25 °C • maximum • minimum • minimum • 25 °C	stranded	2x (0.75 2.5 mm²), 1x 4 mm²	
of or auxiliary contacts         connection terminals           dechanical Design           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           of ront mounting with central attachment         No           rail mounting         Yes           net weight         270 g           environmental conditions           environmental conditions           ambient temperature during operation         -25 °C           emaximum         -25 °C           ambient temperature during storage         eminimum         -25 °C           eminimum         -25 °C           eminimum         -25 °C           eminimum         -55 °C			
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 No • rail mounting • rail mounting  method Yes  net weight 270 g  Tenvironmental conditions  ambient temperature during operation • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • 25 °C ambient temperature during storage • minimum • 25 °C ambient temperature during storage • minimum • 25 °C			
height     96 mm       width     60 mm       depth     92 mm       type of device     fixed mounting       fastening method     Built-in unit fixed-mounted version       fastening method     No       • 4-hole front mounting     No       • front mounting with central attachment     No       • rail mounting     Yes       net weight     270 g       Invironmental conditions       ambient temperature during operation     -25 °C       • maximum     55 °C       ambient temperature during storage     minimum       • minimum     -25 °C       • maximum     55 °C	·	connection terminals	
width 60 mm  depth 92 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  • 4-hole front mounting			
type of device fixed mounting fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  retweight  retweig	•		
fixed mounting  fastening method  fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  reil mounting  e front mounting  Tyes  net weight  270 g  Environmental conditions  ambient temperature during operation • minimum • maximum  55 °C  ambient temperature during storage • minimum • maximum  -25 °C  ambient temperature during storage • minimum • maximum  -25 °C  55 °C			
Fastening method  fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  ret weight  for minimum • minimum • maximum  • minimum • minimum • maximum  • minimum • minimum • 55 °C  ambient temperature during storage • minimum • maximum  -25 °C  -25 °C  -25 °C  -25 °C	•		
fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  ret weight  Environmental conditions  ambient temperature during operation • minimum • maximum  55°C  ambient temperature during storage • minimum • -25°C  ambient temperature during storage • minimum • -25°C  • maximum  55°C			
• 4-hole front mounting     • front mounting with central attachment     • rail mounting     Tent weight     • rail mounting  Provironmental conditions  ambient temperature during operation     • minimum     • maximum     • maximum     • minimum     • 55 °C  ambient temperature during storage     • minimum     • minimum     • 25 °C  ambient temperature during storage     • minimum     • 55 °C  • maximum	-	Built-III uriit lixeu-mounteu versiori	
front mounting with central attachment         rail mounting         Yes  net weight         270 g  Environmental conditions  ambient temperature during operation		No	
erail mounting  Pyes  net weight  270 g  Environmental conditions  ambient temperature during operation  eminimum  maximum  55 °C  eminimum  minimum  minim			
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C			
ambient temperature during operation			
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C			
● minimum         -25 °C           ● maximum         55 °C           ambient temperature during storage         -25 °C           ● minimum         -25 °C           ● maximum         55 °C			
<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>		-25 °C	
ambient temperature during storage			
<ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>			
• maximum 55 °C		-25 °C	











Confirmation

other Environment

<u>Miscellaneous</u> <u>Environmental Confirmations</u>

## Further information

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)

m/mall/en/en/Catalog/product?mlfb=3LD5000-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5000-0TK11

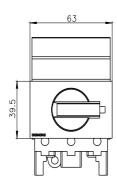
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

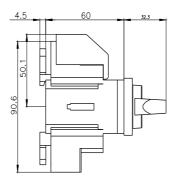
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5000-0TK11

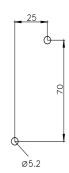
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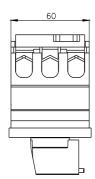
**Tender specifications** 

http://www.siemens.com/specifications









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