## **SIEMENS**

Data sheet 3LD2030-1TL11



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

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	DIN-rail mounting
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	4
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
<ul><li>maximum</li></ul>	60 Hz
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 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
at 50 °C / rated value	16 A

• at 55 °C / 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
at AC-21 A / at 400 V / rated value	16 A
<ul><li>at AC-21 A / at 440 V / rated value</li></ul>	16 A
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	16 A
operating power	
<ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>	4 kW
<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	8 kW
<ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>	7.5 kW
<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	8 kW
<ul><li>at AC-3 / at 240 V / rated value</li></ul>	3 kW
<ul><li>at AC-3 / at 400 V / rated value</li></ul>	6 kW
<ul><li>at AC-3 / at 690 V / rated value</li></ul>	5.5 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
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
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
<ul> <li>voltage trigger</li> </ul>	No
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	1
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
number of bracket locks / maximum	2
hasp thickness / of the bracket locks	4 6 mm
Short circuit	
conditional short-circuit current / with line-side fuse	
protection	50 kA
at 690 V / by gG fuse / rated value  let-through current / with closed switch	50 kA
at 240 V / for combination switch + gG fuse /	3 kA
maximum	J IA
at 440 V / for combination switch + gG fuse / maximum	3 kA
at 690 V / for combination switch + gG fuse / maximum permissible	3 kA
I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum	2.5 kA2.s
I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA2.s
12t value / with closed switch / at 690 V / for combination	3 kA2.s

design of the fuse link  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for short-circuit protection of the auxiliary switch / required  * for switch sw		
required  • for short-circuit protection of the auxiliary switch / required  operational current / of upstream fuse / rated value  according UL  operating voltage / at AC / according to UL 508/UL  operating voltage / at AC / according to UL 508/UL  operating voltage / at AC / at 50/60 Hz / according to UL  solve. Godd-1 / rated value  operating voltage / at AC / at 50/60 Hz / according to UL  solve. Godd-1 / rated value  active power flip/ 3t AC / at 450 V / according to UL  solve. Godd-1 / rated value  active power flip/ 3t AC / at 50/0 V / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / at 50/0 V / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / 3t AC / according to UL  solve. Godd-1 / rated value  volue / 10 / rated	design of the fuse link	
required operational current / of upstream fuse / rated value according UL operational current / at AC / according to UL 508/UL operating voltage / at AC / at 50/80 Hz / according to UL 508/UL operating voltage / at AC / at 50/80 Hz / according to UL 508/UL operating voltage / at AC / at 50/80 Hz / according to UL 508/UL operating voltage / at AC / at 48/80 V / according to UL 508/UL operating voltage / at AC / at 48/80 V / according to UL 508/UL operating voltage / at AC / at 48/80 V / according to UL 508/UL object / at 1 / rated value active power [hg] / at AC / at 48/80 V / according to UL 508/UL object / at 1 / rated value active power [hg] / at AC / at 60/80 V / according to UL / according to UL 508/UL object / at 1 / rated value according to UL / accor		fuse gL/gG: 20 A
Operational current / at AC / according to UL 508/UL   16 A   1		fuse gL/gG: 10 A
September   Act / According to UL 508/UL 608/47-41 / Tatel dvalue		20 A
60947-4-1 / rated value   600 V   508/UL 60947-4-1 / rated value   7.5   600 V   508/UL 60947-4-1 / rated value   7.5   600 V   600	according UL	
2001   2004		16 A
508/UL 60947-4-1 / rate d value  short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1 / rated value  short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1 / rated value  short-time withstand current (SCCR) / at 600 V / according to UL 7 ated value  type of fuse / according to UL  smartimum  siminimum  individual connectable conductor cross-sections / for copper conductor  solid single ystanded / with core end processing short-time with year of connectable conductor cross-sections / for auxiliary contacts  solid single ystanded / with core end processing short-time with year of connectable conductor cross-sections / for auxiliary contacts  solid single ystanded / with core end processing short-time with year of connectable conductor cross-sections / for auxiliary contacts  solid single ystanded / with core end processing short-time with year of connectable conductor cross-sections / for auxiliary contacts  solid solid single ystanded / with core end processing short-time with year of year year year year year year year year		600 V
SOBPUL 60947-4-1 / rated value		7.5
to UL 508/UL 60947-4-1 crated value type of fuse / according to UL official systematics offic		10
rated value type of fuse / according to UL Connections  AWG number / as coded connectable conductor cross section / solid		5 kA
Connections  AWG number / as coded connectable conductor cross section / sold  maximum minimum  18  19 en connectable conductor cross-sections / for copper conductor solid (inely stranded / with core end processing (inely stranded / with with core end processing (inely stranded / with with with inely stranded / with core end processing (inely stranded / with with with inely stranded / with with with with inely stranded / with with inely stranded / with with with with inely stranded / with with with with inely stranded / with wit	·	50 A
AWG number / as coded connectable conductor cross section / solid	type of fuse / according to UL	RK5
section / solid     maximum	Connections	
minimum type of connectable conductor cross-sections / for copper conductor		
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 solid for auxiliary contacts solid for auxiliary contacts for an incurrent circuit for an incurrent circuit for auxiliary contacts solid for auxiliary contacts solid soli	• maximum	10
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  • stolid  • finely stranded / with core end processing  • stranded  • finely stranded / with core end processing  • stranded  • for auxiliary contacts  • for auxiliary contacts  • for main current circuit  • for main current circuit  • for auxiliary contacts   **Mechanical Design**  **Height 45 mm  **Width 53 mm  depth 91 mm  type of device  fastening method  • 4-hole front mounting  • 4-hole front mounting  • 4-hole front mounting with central attachment  • rail mounting  **Transport of the strands of	• minimum	18
• finely stranded / with core end processing • stranded  type of connectable conductor cross-sections / for auxiliary contacts  • solid • finely stranded / with core end processing • stranded • 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  Mochanical Design  height  45 mm  width 53 mm  depth  1ype of elevice fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting with central attachment • rail mounting  method  attachmental conditions  ambient temperature / during operation • minimum • maximum • maximum • maximum • rail minimum • 25 °C • maximum • maximum • maximum • maximum • rail minimum • 25 °C • minimum • maximum • rail minimum • 25 °C • minimum • maximum • maximum • rail minimum • 25 °C • minimum • maximum • strandard num² (Auman on		
stranded type of connectable conductor cross-sections / for auxiliary contacts     solid     finely stranded / with core end processing     stranded     str	• solid	1x (16mm²)
type of connectable conductor cross-sections / for auxiliary contacts  • solid  • finely stranded / with core end processing  • stranded  2x (0.75 2.5 mm²), 1x 4 mm²  • stranded  2x (0.75 2.5 mm²), 1x 4 mm²  2x (0.75 2.5 mm²), 1x 4 mm²  2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection  • for main current circuit  • for auxiliary contacts  **Mechanical Design**  **Mechanical Design**  **Methanical Design**		
auxiliary contacts  • solid  • finely stranded / with core end processing • stranded  • finely stranded / with core end processing • stranded  2x (0.75 2.5 mm²), 1x 2.5 mm²  2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection • for main current circuit • for auxiliary contacts    box terminal		1x (16mm²)
finely stranded / with core end processing   2x (0.75 1.5 mm²), 1x 2.5 mm²	<b>31</b>	
stranded		
type of electrical connection		
for main current circuit     for auxiliary contacts      mechanical Design  height     height     height     depth     depth     depth     type of device     fastening method     fastening method     front mounting with central attachment     rail mounting     inet weight     method     remain during operation     minimum     maximum     demain during storage     minimum     for maximum     sor terminals     connection terminals      demain during and memory     fixed mounting     fixed mounting     Built-in unit fixed-mounted version      No     ves     lend weight     No     sor terminals     fixed mounting     No     sor terminals     some description     sor terminals     fixed mounting     No     sor terminals     some     sor maximum     sor terminals     sor t		2x (0.75 2.5 mm²), 1x 4 mm²
• for auxiliary contacts  Mechanical Design  height  45 mm  width  53 mm  depth  191 mm  type of device fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature / during operation • minimum • maximum • maximum • rail mounting • minimum • -25 °C ambient temperature / during storage • minimum • -25 °C • maximum • maximum • 55 °C	3.	hov terminal
Mechanical Design       height     45 mm       width     53 mm       depth     91 mm       type of device     fixed mounting       fastening method     Built-in unit fixed-mounted version       e 4-hole front mounting     No       • front mounting with central attachment     No       • rail mounting     Yes       net weight     183 g       Environmental conditions       ambient temperature / during operation     -25 °C       • maximum     55 °C       ambient temperature / during storage     -25 °C       • minimum     -25 °C       • minimum     -55 °C		
height 45 mm  width 53 mm  depth 91 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 183 g  Finite merature / during operation • minimum • minimum • 25 °C  ambient temperature / during storage • minimum • minimum • -25 °C  ambient temperature / during storage • minimum • minimum • -25 °C  ambient maximum  55 °C		Connection terminals
width 53 mm  depth 91 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 183 g  Environmental conditions  ambient temperature / during operation • minimum -25 °C  ambient temperature / during storage • minimum • minimum -25 °C  ambient temperature / during storage • minimum • minimum -25 °C  ambient temperature / during storage • minimum • maximum 55 °C	-	45 mm
depth 91 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 183 g   Environmental conditions   ambient temperature / during operation -25 °C   • maximum 55 °C   ambient temperature / during storage -25 °C   • minimum -25 °C   • maximum 55 °C		
type of device 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 • maximum  -25 °C  -25 °C  -25 °C		
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  ambient temperature / during storage • minimum -25 °C  ambient temperature / during storage • minimum -25 °C		
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 • maximum  -25°C  -25°C  -25°C		· · · · · · · · · · · · · · · · · · ·
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>ret weight</li> <li>183 g</li> <li>Environmental conditions</li> <li>ambient temperature / during operation</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature / during storage</li> <li>minimum</li> <li>-25 °C</li> <li>ambient temperature / during storage</li> <li>minimum</li> <li>-25 °C</li> </ul>		
<ul> <li>rail mounting</li> <li>net weight</li> <li>183 g</li> <li>Environmental conditions</li> <li>ambient temperature / during operation</li> <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>ambient temperature / during storage</li> <li>● minimum</li> <li>-25 °C</li> <li>• maximum</li> <li>55 °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  -25 °C  - maximum  55 °C	<ul> <li>front mounting with central attachment</li> </ul>	No
Environmental conditions  ambient temperature / during operation	rail mounting	Yes
ambient temperature / during operation  • minimum  • maximum  55 °C  ambient temperature / during storage  • minimum  -25 °C  -25 °C  -25 °C  -25 °C	net weight	183 g
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature / during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	Environmental conditions	
<ul> <li>maximum</li> <li>ambient temperature / during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	ambient temperature / during operation	
ambient temperature / during storage  • minimum  • maximum  -25 °C  55 °C	• minimum	
<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	
General Product Approval		55 °C
	General Product Approval	



Confirmation







Miscellaneous

**General Product Approval** 

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other

EAC





Special Test Certificate



**Miscellaneous** 

other

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=3LD2030-1TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2030-1TL11

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

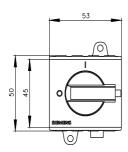
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2030-1TL11

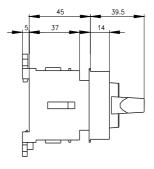
**CAx-Online-Generator** 

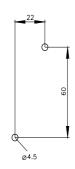
http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications



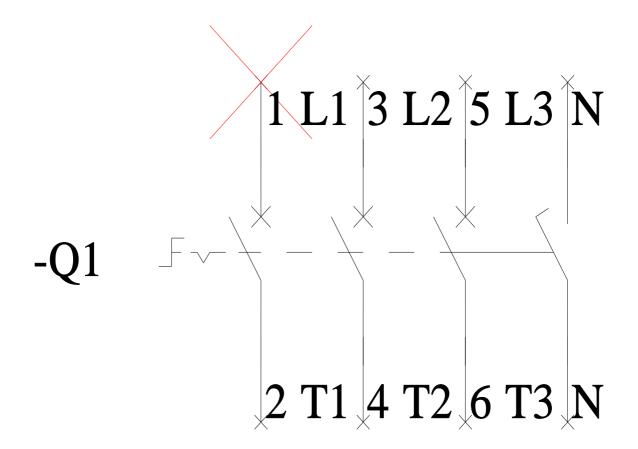






3LD20301TL11

Page 4/6



-CI

