



Load disconnecter 3LD3, I<sub>u</sub> 40 A Main switch 3-pole Rated operating capacity at AC-23 A at 400 V 18.5 kW Installation in distribution boards, Basic switch without Knob-operated mechanism

Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	Switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
type of switch	DIN-rail mounting
design of the actuating element	Without handle
design of handle	without
General technical data	
number of poles	3
number of poles / note	3
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
• maximum	60 Hz
Protection class	
protection class IP	IP20
protection class IP / on the front	IP20
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.5 W
Current	
operational current / rated value	40 A
operational current	
• at 40 °C / rated value	40 A
• at 45 °C / rated value	40 A
• at 50 °C / rated value	40 A
• at 55 °C / rated value	40 A
• at AC / rated value	40 A

Main circuit	
operational current	
<ul style="list-style-type: none"> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 400 V / rated value</li> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> </ul>	40 A 40 A 40 A 40 A 36 A
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-3 / at 240 V / rated value</li> <li>at AC-3 / at 400 V / rated value</li> <li>at AC-3 / at 690 V / rated value</li> </ul>	7.5 kW 19 kW 15 kW 15 kW 7.5 kW 12 kW 11.5 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	
<ul style="list-style-type: none"> <li>main switch</li> <li>switch disconnecter</li> <li>EMERGENCY OFF switch</li> <li>safety switch</li> <li>maintenance/repair switch</li> </ul>	Yes Yes Yes Yes Yes
Product details	
special product feature	Basic Switch
product feature / can be locked into OFF position	No
accessories	
product extension / optional	
<ul style="list-style-type: none"> <li>motor drive</li> <li>voltage trigger</li> </ul>	No 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
Short circuit	
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> <li>at 440 V / by gG fuse / rated value</li> <li>at 690 V / by gG fuse / rated value</li> </ul>	10 kA 6 kA
let-through current / with closed switch	
<ul style="list-style-type: none"> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	5 kA 5 kA 5 kA
I <sup>2</sup> t value / with closed switch	
<ul style="list-style-type: none"> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul>	15 kA <sup>2</sup> .s 15 kA <sup>2</sup> .s 15 kA <sup>2</sup> .s
design of the fuse link	

<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 40 A
<ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	40 A
<b>according UL</b>	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	40 A
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	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
continuous current / of upstream fuse / according to UL / rated value	50 A
type of fuse / according to UL	RK5
<b>Connections</b>	
AWG number / as coded connectable conductor cross section / solid	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• minimum</li> </ul>	6 14
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with core end processing</li> <li>• stranded</li> </ul>	1x (2.5 to 16 mm <sup>2</sup> ) 1x (2.5...16 mm <sup>2</sup> ) 1x (2.5 to 16 mm <sup>2</sup> )
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with core end processing</li> <li>• stranded</li> </ul>	2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup> 2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>
type of electrical connection	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>	box terminal Box terminals
<b>Mechanical Design</b>	
height	60 mm
width	36 mm
depth	64 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	No No Yes
net weight	200 g
<b>Environmental conditions</b>	
ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C
<b>General Product Approval</b>	<b>Declaration of Conformity</b>



[Confirmation](#)



[Miscellaneous](#)

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=3LD3310-0TK05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3310-0TK05>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3310-0TK05](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3310-0TK05)

CAx-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



