## **SIEMENS**

## Data sheet

## 3LD2318-1TL11

SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 160 A, Operating power / at AC-23 A at 400 V: 75 kW, floor mounting with door coupling, knob-operated mechanism, black, 4-hole mounting of the handle



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	
Design of the operating mechanism	selector switch	
Design of handle	knob-operated mechanism, black	
Type of the driving mechanism / motor drive	No	
General technical data		
number of poles	4	
Type of device	fixed mounting	
Type of switch	Floor mounting with door coupling	
Size of switch disconnector	5	
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	185 kA2.s	

Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	185 kA2.s
Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h
′oltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	8 kV
Operating current / at AC / rated value	160 A
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
Protection class IP	IP65
Degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP / on the front	IP65
Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot	36 W
operating state / per pole	
• per conductor / typical	36 W
Current	
Operating current	
• at AC-23 A / at 690 V / rated value	47 A
• at AC-23 A / at 400 V / rated value	132 A
• at AC-22 A / at 690 V / rated value	140 A
• at AC-21 / at 690 V / rated value	160 A
• at AC-21 A / at 240 V / rated value	160 A
• at AC-21 A / at 440 V / rated value	160 A
• at AC-22 A / at 240 V / rated value	140 A
• at AC-22 A / at 440 V / rated value	140 A
• at AC-23 A / at 240 V / rated value	140 A
• at AC-23 A / at 440 V / rated value	132 A
Operating current / of upstream fuse / rated value	160 A
let-through current / with closed switch	
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	15 kA
	15 kA
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	
_	
maximum permissible	4 000 A

Operating frequency	
● initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	75 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	75 kW
• at AC-23 A / at 400 V / rated value	75 kW
• at AC-23 A / at 440 V / rated value	75 kW
• at AC-23 A / at 690 V / rated value	45 kW
• at AC-3 / at 240 V / rated value	35 kW
• at AC-3 / at 400 V / rated value	50 kW
• at AC-3 / at 690 V / rated value	37 kW
Operating current / rated value	160 A
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 /	500 V
maximum	500 V
Continuous current / of the auxiliary contact / rated	10 A
value	
Insulation voltage / of the auxiliary switch / rated	500 V
value	
Suitability	
Suitability for use	
Main switch	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
Appearance	
Color / of the actuating element	black
Product details	
<ul> <li>Product function / can be locked into OFF</li> </ul>	Yes
position Number of bracket locks / maximum	3
Hasp thickness / of the bracket locks / minimum	3 4 mm
Hasp thickness / of the bracket locks / minimum Hasp thickness / of the bracket locks / maximum	6 mm
Product extension / optional	
motor drive	No
<ul> <li>Voltage trigger</li> </ul>	No

Short circuit	
Conditional short-circuit current / with line-side fuse	
protection	
• at 690 V / by gG fuse / rated value	50 kA
Number	2
Number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
Number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5
Number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
● minimum	1
• maximum	4/0
Type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16185mm²)
• finely stranded / with core end processing	1x (16150mm²)
● stranded	1x (16185mm²)
Type of connectable conductor cross-sections / for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
<ul> <li>finely stranded / with core end processing</li> </ul>	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
Requirements	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 160 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> <li>/ required</li> </ul>	fuse gL/gG: 10 A
Mechanical Design	
Height	169 mm
Width	112 mm
Depth	94 mm
Mounting type	Built-in unit fixed-mounted version

<ul> <li>Mounting type / front mounting with 4-hole attachment</li> </ul>	Yes
<ul> <li>Mounting type / front mounting with central attachment</li> </ul>	No
<ul> <li>mounting type / rail mounting</li> </ul>	No
net weight	3 239 g
Environmental conditions	
Ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage / minimum	-25 °C
Certificates	
• reference code / acc. to DIN EN 61346-2	S
• Reference code / acc. to DIN EN 81346-2	SF
General Product Approval	Declaration of Test Certificates Conformity
	Type Test Certific- ates/Test Report     Special Test Certi- ficate
CCC CSA UL	EG-Konf.

other

Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

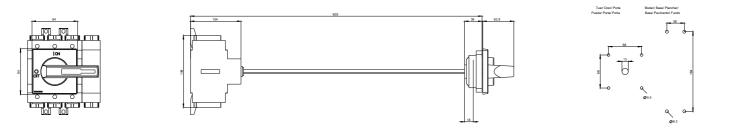
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2318-1TL11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2318-1TL11

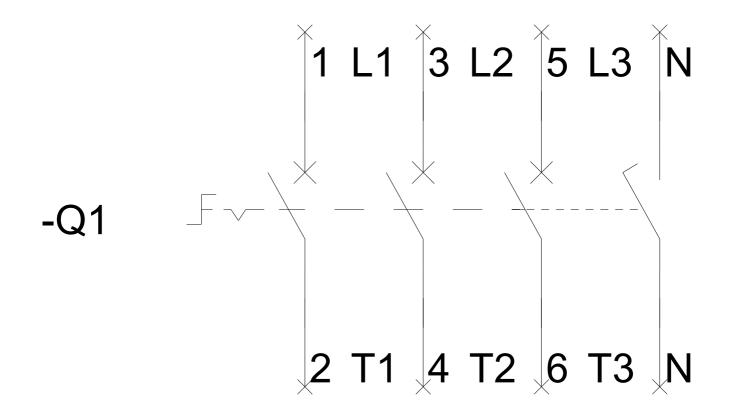
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2318-1TL11

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications







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