



SETRON, Switch disconnecter 3LD, main switch, 3-pole, Iu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, black, 4-hole mounting of the handle, without tolerance compensation

Model	
product brand name	SETRON
product designation	3LD Switch disconnecter
design of the product	Main switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the operating mechanism	Short rotary knob
design of handle	rotary operating mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
type of switch	Floor mounting with door coupling
size of switch disconnecter	3
mechanical service life (switching cycles)	
• typical	100 000
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	21 kA <sup>2</sup> .s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	21 kA <sup>2</sup> .s
operating frequency / maximum	50 1/h

## Voltage

insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
operating current / at AC / rated value	63 A
operating voltage <ul style="list-style-type: none"> <li>at AC / at 50/60 Hz / rated value</li> </ul>	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] <ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> <li>per conductor / typical</li> </ul>	4.5 W 4.5 W
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## Current

operating current <ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-22 A / at 690 V / rated value</li> <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 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> </ul>	22 A 43 A 63 A 63 A 63 A 63 A 63 A 63 A 43 A 43 A
operating current / of upstream fuse / rated value	63 A
let-through current / with closed switch <ul style="list-style-type: none"> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	6 kA 6 kA
short-time withstand current (I <sub>cw</sub> ) <ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	1 260 A 1 260 A

<b>Main circuit</b>	
operating frequency	
• initial value	50 Hz
• full-scale value	60 Hz
operating power	
• at AC-23 A / at 240 V / rated value	11 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	22 kW
• at AC-23 A / at 400 V / rated value	22 kW
• at AC-23 A / at 440 V / rated value	22 kW
• at AC-23 A / at 690 V / rated value	18.5 kW
• at AC-3 / at 240 V / rated value	11 kW
• at AC-3 / at 400 V / rated value	18.5 kW
• at AC-3 / at 690 V / rated value	15 kW
operating current / rated value	63 A
<b>Auxiliary circuit</b>	
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
<b>Suitability</b>	
suitability for use	
• main switch	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes
<b>Appearance</b>	
color / of the actuating element	black
<b>Product details</b>	
• product function / can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	8 mm
special product feature	Without tolerance compensation
product extension / optional	

- motor drive
- voltage trigger

No

No

## Short circuit

conditional short-circuit current / with line-side fuse protection

- at 690 V / by gG fuse / rated value

50 kA

## according UL

operating current / at AC / according to UL 508/UL 60947-4-1 / rated value

63 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

40

active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value

50

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

175 A

type of fuse / according to UL

RK5

## Number

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

- maximum
- minimum

6

14

type of connectable conductor cross-sections / for copper conductor

- solid
- finely stranded / with core end processing
- stranded

1x (2,5...35mm<sup>2</sup>)

1x (2,5...16 mm<sup>2</sup>)

1x (2,5...35mm<sup>2</sup>)

type of connectable conductor cross-sections / for auxiliary contacts

- solid
- finely stranded / with core end processing

lateral auxiliary switch 2x (0,75 ... 2,5mm<sup>2</sup>), 1x 4mm<sup>2</sup>; front auxiliary switch 1x (0,75 ... 2,5mm<sup>2</sup>)

lateral auxiliary switch 2x (0,75 ... 1,5mm<sup>2</sup>), 1x 2,5mm<sup>2</sup>; front auxiliary switch 1x 2,5mm<sup>2</sup>

<ul style="list-style-type: none"> <li>• stranded</li> </ul>	lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²)
type of electrical connection	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>	box terminal connection terminals

## Requirements

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: 63 A
<ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 10 A

## Mechanical Design






height	91 mm
width	67 mm
depth	359 mm
mounting type	Built-in unit fixed-mounted version
mounting type	
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul>	No
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>	Yes
net weight	521 g


## Environmental conditions

ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	55 °C
ambient temperature / during storage / minimum	-25 °C

## Certificates

reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	S
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	SF

General Product Approval					Declaration of Conformity
 CCC	 CSA	 UL	 VDE	<a href="#">Miscellaneous</a>	 EG-Konf.

Test Certificates	Shipping Approval	other
<a href="#">Special Test Certificate</a>	 LRS	<a href="#">Environmental Conformations</a>

#### 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=3LD2515-0TK51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2515-0TK51>

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

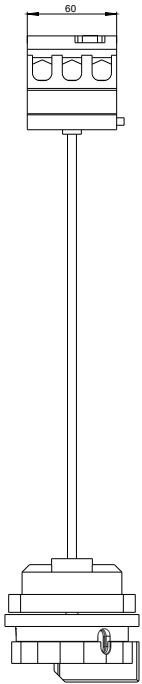
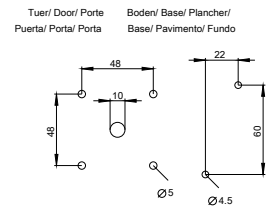
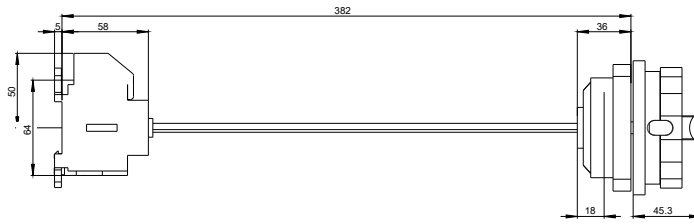
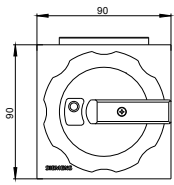
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2515-0TK51](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2515-0TK51)

##### CAX-Online-Generator

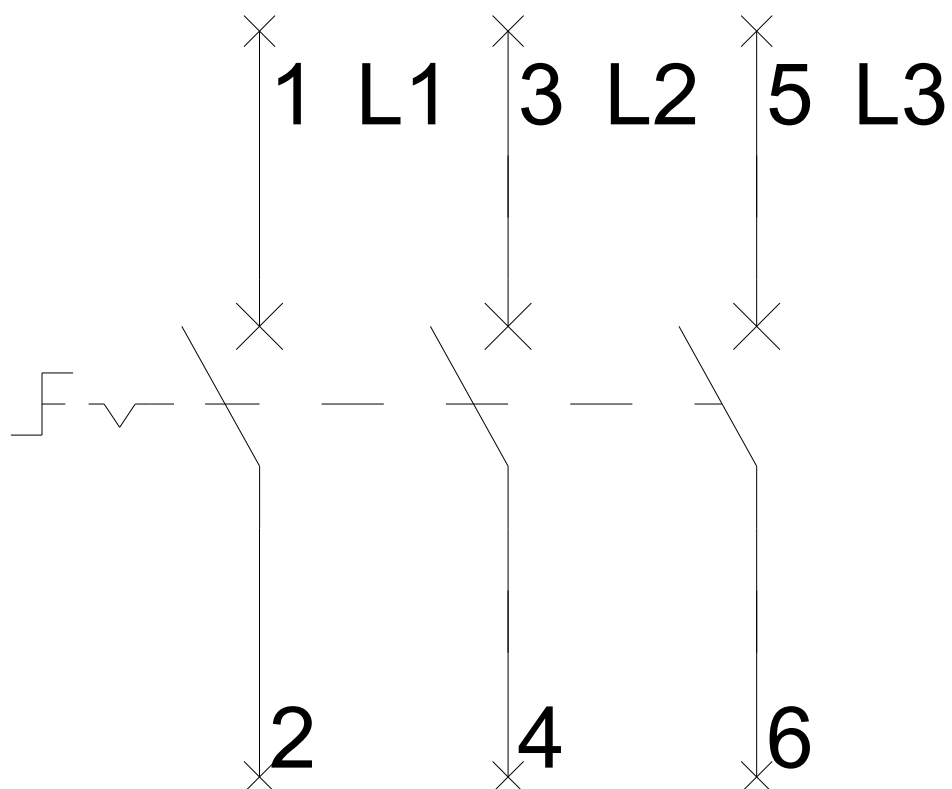
<http://www.siemens.com/cax>

##### Tender specifications

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



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