



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 160 A, operating power / at AC-23 A 400 V: 75 kW, floor mounting with door coupling, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

Model	
Product brand name	SENTRON
Product designation	3LD Switch disconnecter
Design of the product	EMERGENCY-STOP 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, red/yellow
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	5
Electrical endurance (switching cycles) / at AC-23 A / at 690 V	6 000
I ² t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	185 kA ² .s

Let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	185 kA ² .s
Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h

Voltage

Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	8 kV
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
Protection class IP / on the front	IP65

Dissipation

Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	36 W
• 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
Continuous current	
• rated value	160 A
• at 40 °C / rated value	160 A
• at 45 °C / rated value	160 A
• at 50 °C / rated value	160 A
• at 55 °C / rated value	160 A
Operating current / of upstream fuse / rated value	160 A
Let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse / maximum	15 kA

• at 690 V / for combination switch + gG fuse / maximum permissible	15 kA
Short-time withstand current (I _{cw})	
• limited to 1 s / rated value	4 000 A
• at 690 V / limited to 1 s / rated value	4 000 A

Main circuit

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 / 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	No
• switch disconnecter	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance

Color / of the actuating element	red
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Product details

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	6 mm
Short circuit	
Conditional short-circuit current / with line-side fuse protection	
• at 690 V / by gG fuse / rated value	50 kA
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
Type of electrical connection	
• for main current circuit	box terminal
• for auxiliary contacts	connection terminals
Requirements	
Design of the fuse link	
• for short-circuit protection of the main circuit / required	fuse gL/gG: 160 A
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
Mechanical Design	
Height	169 mm
Width	112 mm
Depth	94 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
• front mounting with 4-hole attachment	Yes
• front mounting with central attachment	No
• rail mounting	No
Net weight	2 746 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 • acc. to DIN EN 81346-2		S SF		
General Product Approval		Test Certificates		other
			Type Test Certificates/Test Report	Special Test Certificate
CCC	CSA	UL		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=3LD2318-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2318-0TK13>

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

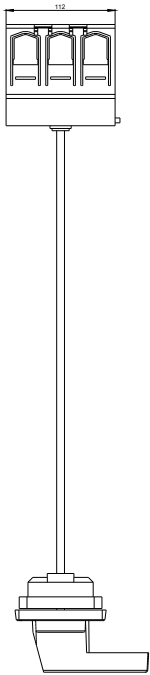
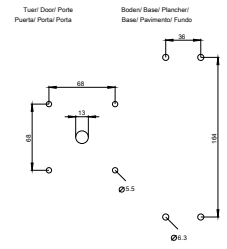
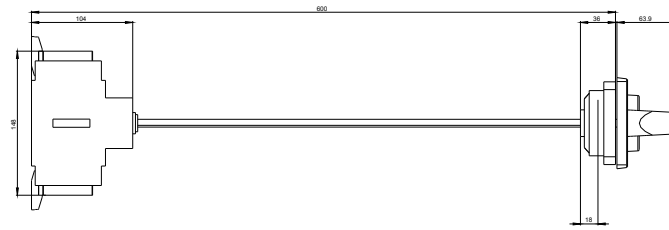
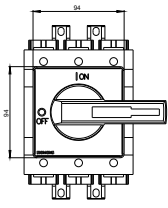
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2318-0TK13

CAX-Online-Generator

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

Tender specifications

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



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