



SENTRON, Switch disconnecter 3LD, main switch, 3-pole, I_u: 125 A, Operating power / at AC-23 A at 400 V: 45 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

Model	
Product brand name	SENTRON
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	selector switch
Design of handle	knob-operated 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	DIN-rail mounting
Size of switch disconnecter	4
Electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I _{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	104 kA ² .s

Let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	104 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	6 kV
Operating current / at AC / rated value	125 A
Operating voltage at AC / at 50/60 Hz / rated value	690 V

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 - per conductor / typical	12 W 12 W
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Current

Operating current - at AC-23 A / at 690 V / rated value - at AC-23 A / at 400 V / rated value - at AC-22 A / at 690 V / rated value - at AC-21 / at 690 V / rated value - at AC-21 A / at 240 V / rated value - at AC-21 A / at 440 V / rated value - at AC-22 A / at 240 V / rated value - at AC-22 A / at 440 V / rated value - at AC-23 A / at 240 V / rated value - at AC-23 A / at 440 V / rated value	39 A 80 A 125 A 125 A 125 A 125 A 125 A 125 A 80 A 80 A
Operating current / of upstream fuse / rated value	125 A
Let-through current / with closed switch - at 440 V / for combination switch + gG fuse / maximum - at 690 V / for combination switch + gG fuse / maximum permissible	10 kA 10 kA
Short-time withstand current (I _{cw}) - limited to 1 s / rated value - at 690 V / limited to 1 s / rated value	2 000 A 2 000 A

Main circuit

Operating frequency	
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• initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	22 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	45 kW
• at AC-23 A / at 400 V / rated value	45 kW
• at AC-23 A / at 440 V / rated value	45 kW
• at AC-23 A / at 690 V / rated value	37 kW
• at AC-3 / at 240 V / rated value	22 kW
• at AC-3 / at 400 V / rated value	37 kW
• at AC-3 / at 690 V / rated value	30 kW
Operating current / rated value	125 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	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance	
Color / of the actuating element	black

Product details	
• Product function / can be locked into OFF position	Yes
Number of bracket locks / maximum	2
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	6 mm
Product extension / optional	
• motor drive	No
• Voltage trigger	No

Short circuit	
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Conditional short-circuit current / with line-side fuse protection	
at 690 V / by gG fuse / rated value	20 kA

according UL

Operating current / at AC / acc. to UL 508 / rated value	125 A
Operating voltage / at AC / at 50/60 Hz / acc. to UL 508 / rated value	600 V
Active power [hp] / at AC / at 480 V / acc. to UL 508 / rated value	75
Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value	100
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	10 kA
Continuous current / of upstream fuse / according to UL / rated value	200 A
Type of fuse / according to UL	RK5
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

Connections

AWG number / as coded connectable conductor cross section / solid	
- maximum - minimum	1 12
Type of connectable conductor cross-sections / for copper conductor	
- solid - finely stranded / with core end processing - stranded	1x (4...50mm ²) 1x (4...35mm ²) 1x (4...50mm ²)
Type of connectable conductor cross-sections / for auxiliary contacts	
- solid - finely stranded / with core end processing - stranded	2x (0.75 ... 2.5 mm ²), 1x 4 mm ² 2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ² 2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
Type of electrical connection	
- for main current circuit - for auxiliary contacts	box terminal connection terminals

Requirements

Design of the fuse link	
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- for short-circuit protection of the main circuit / required
- for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 125 A

fuse gL/gG: 10 A

Mechanical Design

Height	83 mm
Width	71 mm
Depth	97 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	Yes
Net weight	372 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
• acc. to DIN EN 81346-2	SF

General Product Approval

Declaration of Conformity



[Miscellaneous](#)



Test Certificates	Shipping Approval	other
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[Special Test Certificate](#)



[Environmental Conformations](#)

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=3LD2830-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2830-0TK11>

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

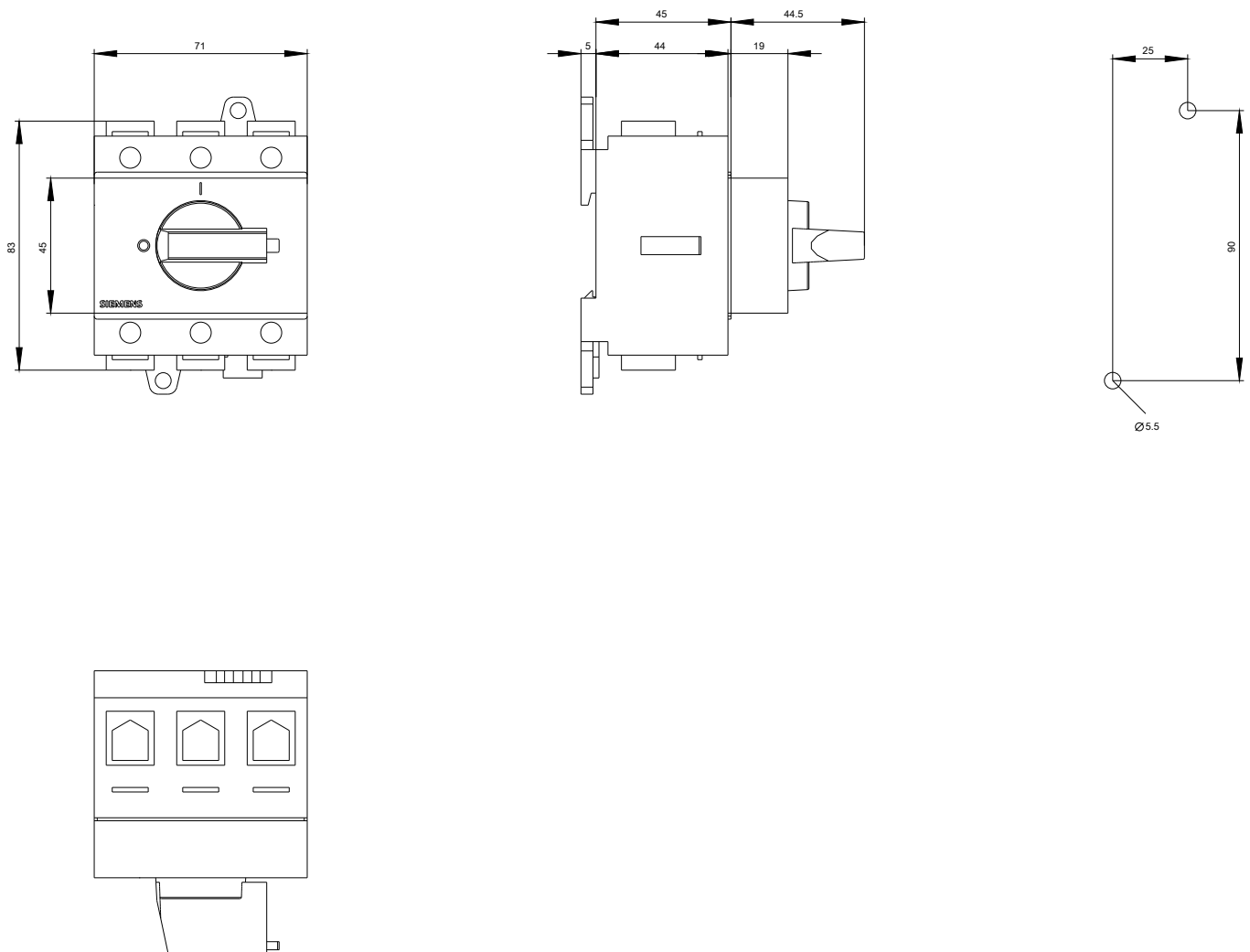
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2830-0TK11

CAX-Online-Generator

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

Tender specifications

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



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