



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, I_n=250 A, operating power / at AC-23 A 400 V: 132 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

Model	
product brand name	SENTRON
product designation	Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	DIN-rail mounting
design of the actuating element	selector switch
color of the actuating element	red
design of handle	knob-operated mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnecter	5
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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	8 kV
operating voltage	
• at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
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	36 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	250 A
• at AC-21 A at 240 V rated value	250 A
• at AC-21 A at 400 V rated value	250 A
• at AC-21 A at 440 V rated value	250 A
• at AC-23 A at 400 V rated value	224 A

operating power	
<ul style="list-style-type: none"> • at AC-23 A at 240 V rated value • at AC-23 A at 400 V rated value • at AC-23 A at 440 V rated value • at AC-23 A at 690 V rated value • at AC-3 at 240 V rated value • at AC-3 at 400 V rated value • at AC-3 at 690 V rated value 	75 kW 132 kW 132 kW 55 kW 55 kW 110 kW 45 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 main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
Accessories	
product extension optional	
<ul style="list-style-type: none"> • motor drive • voltage trigger 	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
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 ... 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
<ul style="list-style-type: none"> • at 690 V by gG fuse rated value 	50 kA
let-through current with closed switch	
<ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible 	15 kA 15 kA 15 kA
I²t value with closed switch	
<ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum 	557 kA ² .s 557 kA ² .s 557 kA ² .s
design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 250 A fuse gL/gG: 10 A
operational current of upstream fuse rated value	250 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	250 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	100
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	75
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA

continuous current of upstream fuse according to UL rated value	200 A
type of fuse according to UL	RK5

Connections

AWG number as coded connectable conductor cross section solid maximum	1
<ul style="list-style-type: none"> • type of connectable conductor cross-sections for copper conductor 	
<ul style="list-style-type: none"> • solid 	1x (16 ... 185mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (16...150mm ²)
<ul style="list-style-type: none"> • stranded 	1x (16...185mm ²)
<ul style="list-style-type: none"> • type of connectable conductor cross-sections for auxiliary contacts 	
<ul style="list-style-type: none"> • solid 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
<ul style="list-style-type: none"> • finely stranded with core end processing 	2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²
<ul style="list-style-type: none"> • stranded 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
<ul style="list-style-type: none"> • type of electrical connection 	
<ul style="list-style-type: none"> • for main current circuit 	box terminal
<ul style="list-style-type: none"> • for auxiliary contacts 	connection terminals

Mechanical Design

height	169 mm
width	112 mm
depth	94 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
<ul style="list-style-type: none"> • fastening method 	
<ul style="list-style-type: none"> • 4-hole front mounting 	No
<ul style="list-style-type: none"> • front mounting with central attachment 	No
<ul style="list-style-type: none"> • rail mounting 	No
Net Weight	2.047 kg

Environmental conditions

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

Approvals Certificates

General Product Approval	other	Environment
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[Confirmation](#)

[Environmental Confirmations](#)

Environment

[Environmental Confirmations](#)

Further information

- Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
- Information for data generation and storage
<https://support.industry.siemens.com/cs/ww/en/view/109995012>
- Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/lowvoltage/catalogs>
- Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2430-0TK13>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3LD2430-0TK13>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2430-0TK13

CAX-Online-Generator

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

Tender specifications

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





