



SENTRON, Switch disconnector 3LD, main switch, 3-pole, I_u: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	Main 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	black
design of handle	knob-operated mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	3
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	6 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	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A
• at AC-23 A at 400 V rated value	43 A
operating power	

• at AC-23 A at 240 V rated value	11 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	19 kW
• at AC-3 at 240 V rated value	11 kW
• at AC-3 at 400 V rated value	19 kW
• at AC-3 at 690 V rated value	15 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

Suitability

suitability for use	
• main switch	Yes
• switch disconnector	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Product details

product feature can be locked into OFF position	Yes
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accessories

product extension optional	
• motor drive	No
• voltage trigger	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	2
hasp thickness of the bracket locks	4 ... 6 mm

Short circuit

conditional short-circuit current with line-side fuse protection	
• at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	6 kA
• at 440 V for combination switch + gG fuse maximum	6 kA
• at 690 V for combination switch + gG fuse maximum permissible	6 kA
I _{2t} value with closed switch	
• at 240 V for combination switch + gG fuse maximum	21 kA2.s
• at 440 V for combination switch + gG fuse maximum	21 kA2.s
• at 690 V for combination switch + gG fuse maximum	21 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 63 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	63 A

according UL

operational 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

Connections					
AWG number as coded connectable conductor cross section solid maximum					
•	6				
•	14				
type of connectable conductor cross-sections for copper conductor					
• solid	1x (2,5...35mm ²)				
• finely stranded with core end processing	1x (2.5...16 mm ²)				
• stranded	1x (2,5..35mm ²)				
type of connectable conductor cross-sections for auxiliary contacts					
• solid	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²				
• finely stranded with core end processing	2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²				
• stranded	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²				
type of electrical connection					
• for main current circuit	box terminal				
• for auxiliary contacts	connection terminals				
Mechanical Design					
height	64 mm				
width	64 mm				
depth	93 mm				
type of device	fixed mounting				
fastening method	Built-in unit fixed-mounted version				
fastening method					
• 4-hole front mounting	No				
• front mounting with central attachment	No				
• rail mounting	Yes				
net weight	305 g				
Environmental conditions					
ambient temperature during operation					
• minimum	-25 °C				
• maximum	55 °C				
ambient temperature during storage					
• minimum	-25 °C				
• maximum	55 °C				
Approvals Certificates					
General Product Approval					
			Confirmation		
General Product Approval	Marine / Shipping	other		Environment	
Miscellaneous			Confirmation	Miscellaneous	Environmental Confirmations
Environment					
Environmental Confirmations					
Further information					
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875					

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=3LD2530-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2530-0TK11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2530-0TK11

CAx-Online-Generator

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

Tender specifications

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





