








SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 3-pole, $I_u=250$ 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	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 actuating element	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	DIN-rail mounting
size of switch disconnecter	5
mechanical service life (switching cycles) / typical	100 000
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	557 kA ² .s
let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	557 kA ² .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	8 kV
operational current / at AC / rated value	250 A
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
• per conductor / typical	36 W
Current	
operational current	
• at AC-23 A / at 400 V / rated value	224 A
• at AC-21 / at 690 V / rated value	250 A

<ul style="list-style-type: none"> • at AC-21 A / at 240 V / rated value 	250 A
<ul style="list-style-type: none"> • at AC-21 A / at 440 V / rated value 	250 A
operational current / of upstream fuse / rated value	250 A
let-through current / with closed switch	
<ul style="list-style-type: none"> • at 440 V / for combination switch + gG fuse / maximum 	15 kA
<ul style="list-style-type: none"> • at 690 V / for combination switch + gG fuse / maximum permissible 	15 kA
Main circuit	
operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value 	75 kW
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	132 kW
<ul style="list-style-type: none"> • at AC-23 A / at 440 V / rated value 	132 kW
<ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value 	55 kW
<ul style="list-style-type: none"> • at AC-3 / at 240 V / rated value 	55 kW
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	110 kW
<ul style="list-style-type: none"> • at AC-3 / at 690 V / rated value 	45 kW
operational current / rated value	250 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	
<ul style="list-style-type: none"> • main switch 	Yes
<ul style="list-style-type: none"> • switch disconnecter 	Yes
<ul style="list-style-type: none"> • EMERGENCY OFF switch 	Yes
<ul style="list-style-type: none"> • safety switch 	Yes
<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Appearance	
color / of the actuating element	red
Product details	
<ul style="list-style-type: none"> • 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
product extension / optional	
<ul style="list-style-type: none"> • motor drive 	No
<ul style="list-style-type: none"> • voltage trigger 	No
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
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		
Number			
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			
• minimum	1		
type of connectable conductor cross-sections / for copper conductor			
• solid	1x (16 ...185mm ²)		
• finely stranded / with core end processing	1x (16...150mm ²)		
• stranded	1x (16...185mm 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		
Requirements			
design of the fuse link			
• for short-circuit protection of the main circuit / required	fuse gL/gG: 250 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		
fastening method	Built-in unit fixed-mounted version		
fastening method			
• 4-hole front mounting	No		
• front mounting with central attachment	No		
• rail mounting	No		
net weight	2 047 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 IEC 81346-2	SF		
General Product Approval		Declaration of Conformity	Test Certificates
			
			
			Type Test Certificates/Test Report
Test Certificates	other		

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?mfb=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, ...)

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

Tender specifications

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

