



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, I_u: 160 A, operating power / at AC-23 A 400 V: 75 kW, front-mounted, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
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 disconnector	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	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
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
Main circuit	
operational current	
• 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 400 V rated value	160 A
• at AC-21 A at 440 V rated value	160 A
• at AC-23 A at 400 V rated value	132 A

operating power		
• at AC-23 A at 240 V 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
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 disconnector		Yes
• EMERGENCY OFF switch		Yes
• safety switch		Yes
• maintenance/repair switch		Yes
Product details		
product feature can be locked into OFF position		Yes
accessories		
product extension optional		
• motor drive		No
• voltage trigger		No
number of connectable NC contacts for auxiliary contacts attachable maximum		3
number of connectable NO contacts for auxiliary contacts attachable maximum		3
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		
• 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		15 kA
• at 440 V for combination switch + gG fuse maximum		15 kA
• at 690 V for combination switch + gG fuse maximum permissible		15 kA
I _{2t} value with closed switch		
• at 240 V for combination switch + gG fuse maximum		185 kA2.s
• at 440 V for combination switch + gG fuse maximum		185 kA2.s
• at 690 V for combination switch + gG fuse maximum		185 kA2.s
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
operational current of upstream fuse rated value		160 A
according UL		
operational current at AC according to UL 508/UL 60947-4-1 rated value		180 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		75
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		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	
• minimum	1
• maximum	4/0
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	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
type of electrical connection	
• for main current circuit	box terminal
• 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
fastening method	
• 4-hole front mounting	Yes
• front mounting with central attachment	No
• rail mounting	No
net weight	2 105 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	Declaration of Conformity
	Confirmation
	
	
other	Environment
Confirmation	Miscellaneous
	Environmental Con- firmations
Further information	
<p>Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business</p>	
<p>Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).</p>	
<p>Information on the packaging</p>	

<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=3LD2305-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2305-0TK13>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2305-0TK13

CAx-Online-Generator

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

Tender specifications

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





