



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 100A, SCCR 65kA at 480VAC, Operating power at 480VAC 3-phase: 60hp, IEC: 100A, Operating power at AC-23A at 400V: 45kW, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, incl. terminal covers for the infeed side

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	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 disconnecter	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	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	100 A
• at AC-21 A at 240 V rated value	100 A
• at AC-21 A at 400 V rated value	100 A
• at AC-21 A at 440 V rated value	100 A
• at AC-23 A at 400 V rated value	100 A

operating power	
• at AC-23 A at 240 V rated value	30 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	30 kW
• at AC-3 at 400 V rated value	45 kW
• at AC-3 at 690 V rated value	30 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 disconnecter	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	5 ... 7.5 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
• at 440 V by gG fuse rated value	50 kA
• 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	16 kA
• at 440 V for combination switch + gG fuse maximum	16 kA
• at 690 V for combination switch + gG fuse maximum permissible	15 kA
I ² t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	223 kA ² .s
• at 440 V for combination switch + gG fuse maximum	223 kA ² .s
• at 690 V for combination switch + gG fuse maximum	223 kA ² .s
design of the fuse link	
• for short-circuit protection of the main circuit required	Fuse gG: 125 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	125 A
according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	100 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	100 A
operating voltage at AC at 50/60 Hz according to UL 489 rated value	480 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	480 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	60

short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489	65 kA
continuous current of upstream fuse according to UL rated value	100 A
type of fuse according to UL	Class J

Connections

AWG number as coded connectable conductor cross section solid maximum • •	3 4/0
AWG number as coded connectable conductor cross section solid according to UL 489 • minimum • maximum	3 4/0
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 • minimum • maximum	3 2/0
type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded	1x (16 ...185mm²) 1x (16...150mm²) 1x (16...185mm²)
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²)
type of electrical connection • for main current circuit • for auxiliary contacts	box terminal connection terminals

Mechanical Design

height	178 mm
width	113 mm
depth	93 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	Yes No No
net weight	1 650 g

Environmental conditions

ambient temperature during operation • minimum • maximum	-25 °C 55 °C
ambient temperature during storage • minimum • maximum	-25 °C 55 °C

Approvals Certificates

General Product Approval



[Confirmation](#)



other	Environment
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[Miscellaneous](#)

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firmations](#)

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=3LD5420-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5420-0TK13>

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

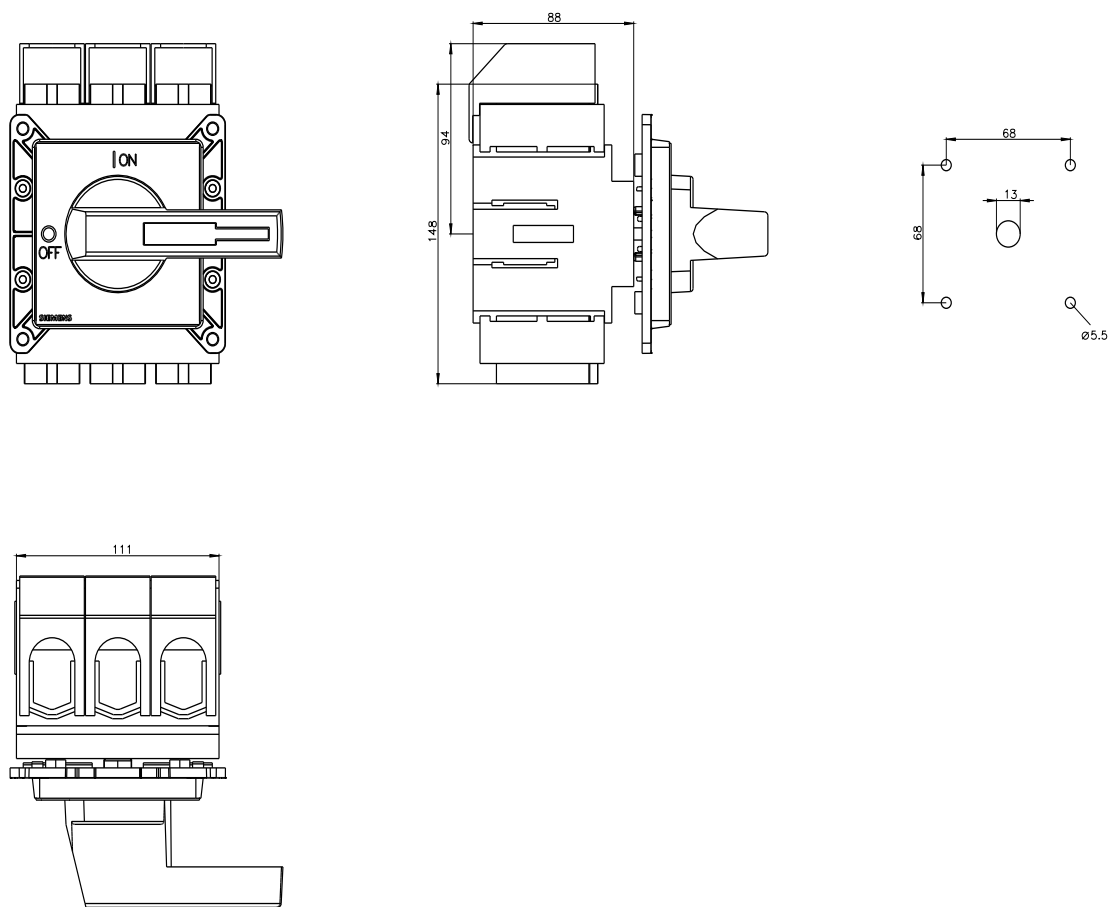
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5420-0TK13

CAX-Online-Generator

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

Tender specifications

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



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