



SENTRON, Molded case switch 3LD5 UL, Main switch, 4-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, black, 4-hole mounting of the handle, incl. terminal covers for the infeed side

Model	
product brand name	SENTRON
product designation	3LD UL switch disconnecter
design of the product	Main 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, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	4
type of device	fixed mounting
type of switch	front mounted
size of switch disconnecter	3
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I ² t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	223 kA ² .s
let-through I ² t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	223 kA ² .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
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
• per conductor / typical	36 W
Current	
operational current	
• at 40 °C / rated value	100 A
• at 45 °C / rated value	100 A
• at 50 °C / rated value	100 A
• at 55 °C / rated value	100 A

<ul style="list-style-type: none"> • at AC / rated value 	100 A
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	100 A
<ul style="list-style-type: none"> • at AC-21 / at 690 V / rated value 	100 A
<ul style="list-style-type: none"> • at AC-21 A / at 240 V / rated value 	100 A
<ul style="list-style-type: none"> • at AC-21 A / at 440 V / rated value 	100 A
operational current / of upstream fuse / rated value	125 A
let-through current / with closed switch	
<ul style="list-style-type: none"> • at 440 V / for combination switch + gG fuse / maximum 	16 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 	30 kW
<ul style="list-style-type: none"> • at AC-23 A / at 440 V / rated value 	45 kW
<ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value 	37 kW
<ul style="list-style-type: none"> • at AC-3 / at 240 V / rated value 	30 kW
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	45 kW
<ul style="list-style-type: none"> • at AC-3 / at 690 V / rated value 	30 kW
operational current / rated value	100 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 	No
<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	black
Product details	
product feature	
<ul style="list-style-type: none"> • can be locked into OFF position 	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	5 mm
hasp thickness / of the bracket locks / maximum	7.5 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 440 V / by gG fuse / rated value 	50 kA
<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 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
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
• minimum	3
• maximum	4/0
AWG number / as coded connectable conductor cross section / solid / according to UL 489	
• minimum	3
AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16	
• minimum	3
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
Requirements	
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
Mechanical Design	
height	178 mm
width	151 mm
depth	93 mm
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	2 150 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	Declaration of Conformity



[Confirmation](#)



other

[Miscellaneous](#)

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=3LD5420-0TL11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5420-0TL11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD5420-0TL11

CAX-Online-Generator

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

Tender specifications

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



