



SENTRON, Molded case switch 3LD5 UL, Main switch, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 60A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 40hp, IEC: 63A, Operating power at AC-23A at 400V: 30kW, 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
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
size of switch disconnecter	2
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	7.5 W
Current	
operational current rated value	63 A
operational current	
• at 40 °C rated value	63 A
• at 45 °C rated value	63 A
• at 50 °C rated value	63 A
• at 55 °C rated value	63 A

- at AC rated value

63 A

Main circuit

operational current

- at AC-21 at 690 V rated value
- at AC-21 A at 240 V rated value
- at AC-21 A at 400 V rated value
- at AC-21 A at 440 V rated value
- at AC-23 A at 400 V rated value

63 A
63 A
63 A
63 A
63 A

operating power

- at AC-23 A at 240 V rated value
- at AC-23 A at 400 V rated value
- at AC-23 A at 440 V rated value
- at AC-23 A at 690 V rated value
- at AC-3 at 240 V rated value
- at AC-3 at 400 V rated value
- at AC-3 at 690 V rated value

18.5 kW
30 kW
30 kW
37 kW
18.5 kW
30 kW
30 kW

Auxiliary circuit

number of CO contacts for auxiliary contacts
number of NC contacts for auxiliary contacts
number of NO contacts for auxiliary contacts
operating voltage of auxiliary contacts at AC maximum
continuous current of the auxiliary contact rated value
insulation voltage of the auxiliary switch rated value

0
0
0
500 V
10 A
500 V

Suitability

suitability for use

- main switch
- switch disconnecter
- EMERGENCY OFF switch
- safety switch
- maintenance/repair switch

Yes
Yes
No
Yes
Yes

Product details

product feature can be locked into OFF position

Yes

accessories

product extension optional

- motor drive
- voltage trigger

No
Nonumber 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

number of bracket locks maximum

1

hasp thickness of the bracket locks

4 ... 6 mm

Short circuit

conditional short-circuit current with line-side fuse
protection

- at 440 V by gG fuse rated value
- at 690 V by gG fuse rated value

50 kA
50 kA

let-through current with closed switch

- at 240 V for combination switch + gG fuse maximum
- at 440 V for combination switch + gG fuse maximum
- at 690 V for combination switch + gG fuse maximum
permissible

8 kA
8 kA
7 kAI²t value with closed switch

- at 240 V for combination switch + gG fuse maximum
- at 440 V for combination switch + gG fuse maximum
- at 690 V for combination switch + gG fuse maximum

30 kA².s
30 kA².s
24 kA².s

design of the fuse link

- for short-circuit protection of the main circuit
required
- for short-circuit protection of the auxiliary switch
required

fuse gL/gG: 63 A
fuse gL/gG: 10 A

operational current of upstream fuse rated value

63 A

according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	60 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	60 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	30
short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489	50 kA
continuous current of upstream fuse according to UL rated value	60 A
type of fuse according to UL	Class J

Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	1
• minimum	12
AWG number as coded connectable conductor cross section solid according to UL 489	
• minimum	12
• maximum	1
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16	
• minimum	10
• maximum	4
type of connectable conductor cross-sections for copper conductor	
• solid	1x (4...50mm ²)
• finely stranded with core end processing	1x (4...35mm ²)
• stranded	1x (4...50mm 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	104 mm
width	103 mm
depth	108 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	380 g

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

General Product Approval	Declaration of Conformity
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[Confirmation](#)



EG-Konf.

other

[Confirmation](#)

[Miscellaneous](#)

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?mfb=3LD5220-0TL11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5220-0TL11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD5220-0TL11

CAX-Online-Generator

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

Tender specifications

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



