



SENTRON, Molded case switch 3LD5 UL, Main switch, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 30A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 20hp, IEC: 32A, Operating power at AC-23A at 400V: 15kW, floor mounting with direct handle, black, incl. terminal covers for the infeed side

Model	
product brand name	SENTRON
Design of the product	Main switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of the operating mechanism	selector switch
Design of handle	knob-operated mechanism, black
Type of the driving mechanism / motor drive	No

General technical data	
number of poles	3
Type of device	fixed mounting
Type of switch	Floor mounting with direct drive
Size of switch disconnecter	1
Electrical endurance (switching cycles) <ul style="list-style-type: none">• at AC-23 A / at 690 V	6 000
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	12 kA2.s
Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	12 kA2.s

Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Operating current / at AC / rated value	32 A
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
Protection class IP	IP00
protection class IP / on the front	IP00
Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	4.5 W
• per conductor / typical	4.5 W
Current	
Operating current	
• at AC-23 A / at 690 V / rated value	22 A
• at AC-23 A / at 400 V / rated value	32 A
• at AC-22 A / at 690 V / rated value	32 A
• at AC-21 / at 690 V / rated value	32 A
• at AC-21 A / at 240 V / rated value	32 A
• at AC-21 A / at 440 V / rated value	32 A
• at AC-22 A / at 240 V / rated value	32 A
• at AC-22 A / at 440 V / rated value	32 A
• at AC-23 A / at 240 V / rated value	32 A
• at AC-23 A / at 440 V / rated value	32 A
Operating current / of upstream fuse / rated value	40 A
let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse / maximum	6 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	6 kA
Short-time withstand current (I _{cw})	
• limited to 1 s / rated value	1 260 A
• at 690 V / limited to 1 s / rated value	1 260 A
Main circuit	
Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz

Operating power	
• at AC-23 A / at 240 V / rated value	7.5 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	15 kW
• at AC-23 A / at 440 V / rated value	15 kW
• at AC-23 A / at 690 V / rated value	18.5 kW
• at AC-3 / at 240 V / rated value	7.5 kW
• at AC-3 / at 400 V / rated value	15 kW
• at AC-3 / at 690 V / rated value	15 kW
Operating current / rated value	32 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	
• Main switch	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance

Color / of the actuating element	black
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Product details

• Product function / can be locked into OFF position	Yes
Number of bracket locks / maximum	1
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	6 mm
Product extension / optional	
• motor drive	No
• Voltage trigger	No

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

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

- maximum
- minimum

6

14

Type of connectable conductor cross-sections / for copper conductor

- solid
- finely stranded / with core end processing
- stranded

1x (2,5...35mm²)

1x (2,5...16 mm²)

1x (2,5...35mm²)

Type of connectable conductor cross-sections / for auxiliary contacts

- solid
- finely stranded / with core end processing
- stranded

2x (0.75 ... 2.5 mm²), 1x 4 mm²

2x (0.75 ... 1.5 mm²), 1x 2.5 mm²

2x (0.75 ... 2.5 mm²), 1x 4 mm²

Type of electrical connection

- for main current circuit
- for auxiliary contacts

box terminal

connection terminals

Requirements

Design of the fuse link

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

Fuse gG: 40 A

fuse gL/gG: 10 A

Mechanical Design

Height

96 mm

Width

60 mm

Depth

92 mm

Mounting type

Built-in unit fixed-mounted version

- Mounting type / front mounting with 4-hole attachment
- Mounting type / front mounting with central attachment
- mounting type / rail mounting

No

No

Yes

net weight	270 g
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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
• Reference code / acc. to DIN EN 81346-2	SF

General Product Approval

Declaration of Conformity



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?mlfb=3LD5000-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5000-0TK11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5000-0TK11

CAX-Online-Generator

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

Tender specifications

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



