



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 125A, SCCR 65kA at 480VAC, Operating power at 480VAC 3-phase: 75hp, IEC: 125A, Operating power at AC-23A at 400V: 55kW, floor mounting with direct handle, red/yellow, incl. terminal covers for the infeed side

Model	
product brand name	SENTRON
design of the product	EMERGENCY-STOP 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, red/yellow
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	3
Electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	223 kA2.s
Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	223 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	125 A
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 	36 W
<ul style="list-style-type: none"> Power loss [W] / per conductor / typical 	36 W
Current	
<ul style="list-style-type: none"> Operating current / at AC-23 A / at 690 V / rated value 	47 A
<ul style="list-style-type: none"> operating current / at AC-23 A / at 400 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-22 A / at 690 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-21 / at 690 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-21 A / at 240 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-21 A / at 440 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-22 A / at 240 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-22 A / at 440 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-23 A / at 240 V / rated value 	125 A
<ul style="list-style-type: none"> Operating current / at AC-23 A / at 440 V / rated value 	125 A
Operating 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

• short-time withstand current (I _{cw}) / limited to 1 s / rated value	4 000 A
• Short-time withstand current (I _{cw}) / at 690 V / limited to 1 s / rated value	4 000 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	37 kW
• operating power / at AC-23 A / at 400 V / at 50/60 Hz / rated value	55 kW
• Operating power / at AC-23 A / at 440 V / rated value	55 kW
• Operating power / at AC-23 A / at 690 V / rated value	45 kW
• Operating power / at AC-3 / at 240 V / rated value	37 kW
• operating power / at AC-3 / at 400 V / rated value	55 kW
• operating power / at AC-3 / at 690 V / rated value	37 kW
operating current / rated value	125 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 disconnector	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance

color / of the actuating element	red
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Product details

<ul style="list-style-type: none"> product function / 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

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	
<ul style="list-style-type: none"> minimum 	1
<ul style="list-style-type: none"> maximum 	4/0
<ul style="list-style-type: none"> Type of connectable conductor cross-sections / for copper conductor / solid 	1x (16 ... 185mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing 	1x (16...150mm ²)
<ul style="list-style-type: none"> type of connectable conductor cross-sections / for copper conductor / stranded 	1x (16...185mm ²)
<ul style="list-style-type: none"> type of connectable conductor cross-sections / for auxiliary contacts / solid 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
<ul style="list-style-type: none"> type of connectable conductor cross-sections / for auxiliary contacts / finely stranded / with core end processing 	2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²
<ul style="list-style-type: none"> Type of connectable conductor cross-sections / for auxiliary contacts / stranded 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	box terminal
<ul style="list-style-type: none"> for auxiliary contacts 	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: 125 A

fuse gL/gG: 10 A

Mechanical Design

height

178 mm

width

113 mm

depth

158 mm

mounting type

Built-in unit fixed-mounted version

mounting type

- front mounting with 4-hole attachment
- front mounting with central attachment
- rail mounting

No

No

No

net weight

1 650 g

Environmental conditions

ambient temperature / during operation

- minimum
- maximum

-25 °C

55 °C

ambient temperature / during storage / minimum

-25 °C

Certificates

reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

S

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=3LD5600-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5600-0TK13>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5600-0TK13

CAX-Online-Generator

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

Tender specifications

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



