SIEMENS

Data sheet

3LD5800-0TK13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 150A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 100hp, IEC: 160A, Operating power at AC-23A at 400V: 75kW, floor mounting with direct handle, red/yellow, incl. terminal covers for the infeed side

Model	
product brand name	SENTRON
product designation	3LD UL switch disconnector
design of the product	EMERGENCY-STOP 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, 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 disconnector	3
mechanical service life (switching cycles) / typical	100 000
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
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	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 	36 W
per conductor / typical	36 W
Current	
operational current	
• at 40 °C / rated value	160 A
• at 45 °C / rated value	160 A
• at 50 °C / rated value	160 A
● at 55 °C / rated value	160 A
• at AC / rated value	160 A

 at AC-23 A / at 400 V / rated value 	160 A
• at AC-21 / at 690 V / rated value	160 A
• at AC-21 A / at 240 V / rated value	160 A
• at AC-21 A / at 440 V / rated value	160 A
operational current / of upstream fuse / rated value	160 A
let-through current / with closed switch	100 A
 at 440 V / for combination switch + gG fuse / maximum 	16 kA
• at 690 V / for combination switch + gG fuse /	15 kA
maximum permissible	
Main circuit	
operating power	45.114
 at AC-23 A / at 240 V / rated value 	45 kW
 at AC-23 A / at 440 V / rated value at AC-23 A / at 600 V / rated value 	75 kW
• at AC-23 A / at 690 V / rated value	55 kW
• at AC-3 / at 240 V / rated value	45 kW
• at AC-3 / at 400 V / rated value	75 kW
at AC-3 / at 690 V / rated value	45 kW
operational current / rated value	160 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
Product details	
product feature	
can be locked into OFF position	Yes
number of bracket locks / maximum	3
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum	3 5 mm
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	3
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional	3 5 mm 7.5 mm
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive	3 5 mm 7.5 mm No
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger	3 5 mm 7.5 mm
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit	3 5 mm 7.5 mm No
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger	3 5 mm 7.5 mm No
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	3 5 mm 7.5 mm No No
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection	3 5 mm 7.5 mm No No
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number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger 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 • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value	3 5 mm 7.5 mm No No 50 kA 30 kA
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger 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 • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value	3 5 mm 7.5 mm No No 50 kA 30 kA 150 A
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger 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 • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value • operational current / at AC / according to UL 489/UL 60947-4-1 / rated value • operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	3 5 mm 7.5 mm No No 50 kA 30 kA 150 A
number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger 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 • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 489/UL 60947-4-1 / rated value operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL 489 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	3 5 mm 7.5 mm No No 50 kA 30 kA 150 A 150 A 480 V

n²)
1 ²)
l ²)
mm ²), 1x 4 mm ²
mm ²), 1x 2.5 mm ²
mm²), 1x 4 mm²
ninals
A
A
d-mounted version
xe

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?mlfb=3LD5800-0TK13
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3LD5800-0TK13
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5800-0TK13
CAx-Online-Generator http://www.siemens.com/cax
Tender specifications http://www.siemens.com/specifications

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