SIEMENS

Data sheet 3LD5020-0TK13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 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, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, 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
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	1
mechanical service life (switching cycles) typical	100 000
electrical endurance (switching 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
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	4.5 W
Current	
operational current rated value	32 A
operational current	
 at 40 °C rated value 	32 A
 at 45 °C rated value 	32 A
 at 50 °C rated value 	32 A
 at 55 °C rated value 	32 A
at AC rated value	32 A
Main circuit	
operational current	
 at AC-21 at 690 V rated value 	32 A
 at AC-21 A at 240 V rated value 	32 A

a at AC 21 A at 400 V rated value	22 /
at AC-21 A at 400 V rated valueat AC-21 A at 440 V rated value	32 A 32 A
at AC-21 A at 440 V rated value at AC-23 A at 400 V rated value	32 A
operating power	02 A
at AC-23 A at 240 V rated value	7.5 kW
• at AC-23 A at 440 V rated value	15 kW
at AC-23 A at 690 V rated value	19 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
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
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
 motor drive 	No
 voltage trigger 	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	3
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 	50 kA
 at 690 V by gG fuse rated value 	50 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	6 kA
 at 440 V for combination switch + gG fuse maximum 	6 kA
 at 690 V for combination switch + gG fuse maximum permissible 	6 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	12 kA2.s
• at 440 V for combination switch + gG fuse maximum	12 kA2.s
 at 690 V for combination switch + gG fuse maximum design of the fuse link 	12 kA2.s
 for short-circuit protection of the main circuit required 	Fuse gG: 40 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A
according UL	
operational current at AC according to UL 489/UL 60947- 4-1 rated value	30 A
operational current at AC according to UL 508/UL 60947- 4-1 rated value	30 A
operating voltage at AC at 50/60 Hz according to UL 489	480 V

rated value 480 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 20 60947-4-1 rated value short-time withstand current (SCCR) at 480 V according to 50 kA UL 508/UL 60947-4-1 and UL 489 continuous current of upstream fuse according to UL rated 30 A type of fuse according to UL Class CC, J Connections AWG number as coded connectable conductor cross section solid maximum 6 minimum 14 AWG number as coded connectable conductor cross section solid according to UL 489 • minimum 14 maximum 6 AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 12 8 • maximum type of connectable conductor cross-sections for copper conductor solid 1x (2,5...35mm²) · finely stranded with core end processing 1x (2.5...16 mm²) 1x (2,5..35mm²) type of connectable conductor cross-sections for auxiliary contacts solid lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) • finely stranded with core end processing lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² stranded lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm2) type of electrical connection • for main current circuit box terminal · for auxiliary contacts connection terminals Mechanical Design 96 mm height width 60 mm depth 59 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes • 4-hole front mounting front mounting with central attachment No · rail mounting No net weight 270 g **Environmental conditions** ambient temperature during operation • minimum -25 °C 55 °C • maximum ambient temperature during storage -25 °C • minimum 55 °C maximum **General Product Approval Declaration of Conformity**



Confirmation









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=3LD5020-0TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5020-0TK13

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5020-0TK13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









