SIEMENS

Data sheet

3LD5020-0TK11



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, 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 disconnector
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	3
size of switch disconnector	1
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
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

at AC-21 A at 400 V rated value	32 A
at AC-21 A at 440 V rated value	32 A
• at AC-23 A at 400 V rated value	32 A
operating power	
• 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 	No
 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 	12 kA2.s
design of the fuse link	
 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	
operating voltage at AC at 50/60 Hz according to UL	480 V
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 UL 508/UL 60947-4-1 and UL 489	50 kA
continuous current of upstream fuse according to UL rated value	30 A
type of fuse according to UL	Class CC, J
Connections	
AWG number as coded connectable conductor cross	
section solid	
• maximum	6 14
minimum AWG number as coded connectable conductor cross	14
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	
• minimum	12
• maximum	8
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2,535mm²)
 finely stranded with core end processing 	1x (2.516 mm ²)
• stranded	1x (2,535mm²)
type of connectable conductor cross-sections for auxiliary contacts	
solid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary
• Solid	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	96 mm
width	60 mm
depth	59 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 270 g
net weight	
Environmental conditions	
 ambient temperature during operation minimum 	-25 °C
• minimum • maximum	-25 °C
ambient temperature during storage	
minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity
Confirmation	
(SP) (Ui)	
CSA UL	EG-Konf.

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?mlfb=3LD5020-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5020-0TK11

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

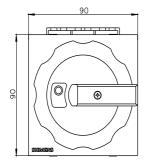
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5020-0TK11

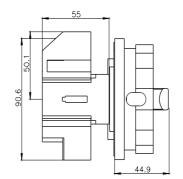
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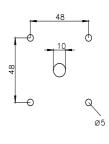
http://www.siemens.com/cax

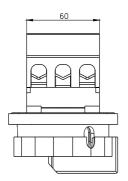
Tender specifications

http://www.siemens.com/specifications









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