## **SIEMENS**

Data sheet 3LD5220-0TL13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 60A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 40hp, IEC: 63A, Operating power at AC-23A at 400V: 30kW, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, incl. terminal covers for the infeed side

product brand name	SENTRON
product designation	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	4
size of switch disconnector	2
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
operating voltage	
at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
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	7.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	63 A

operating power	40.5111
• at AC-23 A at 240 V rated value	18.5 kW
• at AC-23 A at 400 V rated value	30 kW
• at AC-23 A at 440 V rated value	30 kW
• at AC-23 A at 690 V rated value	37 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	18.5 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	30 kW
at AC-3 at 690 V rated value	30 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	
<ul> <li>motor drive</li> </ul>	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	2
number of connectable NO contacts for auxiliary contacts attachable maximum	2
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	
<ul> <li>at 440 V by gG fuse rated value</li> </ul>	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	8 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	8 kA
at 690 V for combination switch + gG fuse maximum permissible	7 kA
I2t value with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	30 kA2.s
• at 440 V for combination switch + gG fuse maximum	30 kA2.s
• at 690 V for combination switch + gG fuse maximum	24 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 63 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	63 A
according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	60 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	60 A
operating voltage at AC at 50/60 Hz according to UL 489 rated value	480 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	480 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-	30

continuous current of upstream fuse according to UL rated value type of fuse according to UL  Connections  AWG number as coded connectable conductor cross section solid  • maximum  • minimum  AWG number as coded connectable conductor cross section solid according to UL 489  • minimum  AWG number as coded connectable conductor cross section solid according to UL 489  • minimum  • maximum  AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16  • minimum  • maximum  type of connectable conductor cross-sections for copper conductor  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  • stranded  type of electrical connection  • for main current circuit  • for auxiliary contacts  Mechanical Design  height	50 kA  60 A  Class J  1 12 12 14 15 16 17 18 18 19 19 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10
continuous current of upstream fuse according to UL rated value type of fuse according to UL  Connections  AWG number as coded connectable conductor cross section solid  maximum minimum  AWG number as coded connectable conductor cross section solid according to UL 489  minimum  maximum  AWG number as coded connectable conductor cross section solid according to UL 489  minimum maximum  AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16  minimum maximum  type of connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing  stranded  type of electrical connection  for main current circuit  for auxiliary contacts  Mechanical Design  height	1 12 12 11 10 4 1x (450mm²)
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conductor	1x (435mm²) 1x (450mm²) lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
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contacts	(0,75 2,5mm²) lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
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stranded  type of electrical connection     for main current circuit     for auxiliary contacts  Mechanical Design  height	2,5mm²
type of electrical connection  • for main current circuit  • for auxiliary contacts  Mechanical Design  height	
for main current circuit     for auxiliary contacts  Mechanical Design  height	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
for auxiliary contacts  Mechanical Design  height	
Mechanical Design height	box terminal
height	connection terminals
width	104 mm
	103 mm
depth	108 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
0	No
-	380 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity



Confirmation



EHC





other

Miscellaneous

Confirmation

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

## Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## 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=3LD5220-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5220-0TL13

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

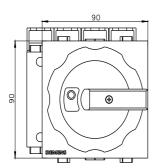
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5220-0TL13

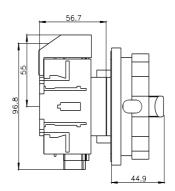
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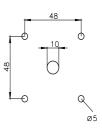
http://www.siemens.com/cax

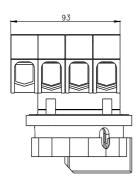
Tender specifications

http://www.siemens.com/specifications









last modified:

6/20/2023