



SETRON, Molded case switch 3LD5 UL, Main switch, 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 door coupling rotary operating mechanism, defeatable, Standard, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

Model	
product brand name	SETRON
product designation	3LD UL switch disconnecter
design of the product	Main switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the actuating element	door-coupling rotary operating mechanism
design of handle	rotary operating mechanism, black
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 door coupling
size of switch disconnecter	3
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I _{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	223 kA ² .s
let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	223 kA ² .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	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	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	
• at 440 V / for combination switch + gG fuse / maximum	16 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	15 kA
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	45 kW
• at AC-23 A / at 440 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 disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes
Appearance	
color / of the actuating element	gray
Product details	
product feature	
• 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
special product feature	defeatable door-coupling handle
product extension / optional	
• motor drive	No
• voltage trigger	No
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	30 kA
according UL	
operational current / at AC / acc. to UL 489/UL 60947-4-1 / rated value	150 A
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	150 A
operating voltage / at AC / at 50/60 Hz / acc. 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	100

508/UL 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	150 A	
type of fuse / according to UL	Class J	
Number		
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3	
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5	
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0	
Connections		
AWG number / as coded connectable conductor cross section / solid • minimum • maximum	1 4/0	
AWG number / as coded connectable conductor cross section / solid / acc. to UL 489 • minimum	1	
AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16 • minimum	3	
type of connectable conductor cross-sections / for copper conductor • solid • finely stranded / with core end processing • stranded	1x (16 ...185mm²) 1x (16...150mm²) 1x (16...185mm²)	
type of connectable conductor cross-sections / for auxiliary contacts • solid • finely stranded / with core end processing • stranded	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 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 • for auxiliary contacts	box terminal 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: 160 A fuse gL/gG: 10 A	
Mechanical Design		
height	178 mm	
width	113 mm	
depth	158 mm	
fastening method	Built-in unit fixed-mounted version	
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	Yes No No	
net weight	1 900 g	
Environmental conditions		
ambient temperature / during operation • minimum • maximum	-25 °C 55 °C	
ambient temperature / during storage / minimum	-25 °C	
General Product Approval	Declaration of Conformity	other



UK Declaration of
Conformity



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=3LD5810-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5810-0TK11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5810-0TK11

CAX-Online-Generator

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

Tender specifications

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



