SIEMENS

Data sheet 3LD5810-0TL11



SENTRON, Molded case switch 3LD5 UL, Main switch, 4-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	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	Floor mounting with door coupling	
design of the actuating element	door-coupling rotary operating mechanism	
color / of the actuating element	gray	
design of handle	rotary operating mechanism, black	
type of the driving mechanism / motor drive	No	
General technical data		
number of poles	4	
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	
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	36 W	
Current		
operational current / rated value	160 A	
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	
Main circuit		
operational current		

 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 400 V / rated value	160 A
at AC-21 A / at 440 V / rated value	160 A
at AC-23 A / at 400 V / rated value	160 A
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
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	
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	
special product feature	defeatable door-coupling handle
product feature / can be locked into OFF position	Yes
accesories	
accessories	
product extension / optional	
	No
product extension / optional	No No
product extension / optional • motor drive	
product extension / optional	No
product extension / optional	No 2
product extension / optional	No 2 3
product extension / optional	No 2 3 0
product extension / optional	No 2 3 0 3
product extension / optional	No 2 3 0 3
product extension / optional	No 2 3 0 3
product extension / optional	No 2 3 0 3 5 7.5 mm
product extension / optional	No 2 3 0 3 5 7.5 mm
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks 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	No 2 3 0 3 5 7.5 mm
product extension / optional	No 2 3 0 3 5 7.5 mm 50 kA 30 kA
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks 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 let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse /	No 2 3 0 3 5 7.5 mm 50 kA 30 kA
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value e at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse /	No 2 3 0 3 5 7.5 mm 50 kA 30 kA 16 kA
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product extension / optional	No 2 3 0 3 5 7.5 mm 50 kA 30 kA 16 kA 16 kA 15 kA 223 kA2.s

## of a short-cricit protection of the auxiliary switch / equilibria current of upstream fuse / rated value 150 A	roquired	
required operational current of upstream fuse / rated value perational current of upstream fuse / rated value perational current / at AC / according to UI. 489/UI. 150 A 1904/4-1 / rated value power fine of the value of the va	·	fuse at /aG: 10 A
personal current / at AC / according to UL 489/UL personal current / at AC / according to UL 508/UL personal current / at AC / according to UL 508/UL personal current / at AC / according to UL personal value / according to UL perso		luse garge. To A
poperational current / at AC / according to UL 489/UL poperational current / at AC / according to UL 508/UL poperational current / at AC / according to UL 508/UL poperating voltage / at AC / at 50/60 Hz / according to UL 480 V 580 UL 508/UL 504/1-1 risted value poperating voltage / at AC / at 50/60 Hz / according to UL active power (Inp.) / at AC / at 430 V / according to UL active power (Inp.) / at AC / at 430 V / according to UL short-time withstand current (SCCR) / at 480 V / according to UL short-time withstand current (SCCR) / at 480 V / according to UL short-time withstand current (SCCR) / at 480 V / according to UL ype of Uses / according to UL 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 CZ2 2 No. 5-16 **minimum* **maximum* AWG number / as coded connectable conductor cross section / solid / according to CSA CZ2 2 No. 5-16 **minimum* **maximum* **maximum* AWG number / as coded connectable conductor cross section / solid / according to CSA CZ2 2 No. 5-16 **minimum* **maximum* **maximum* AWG number / as coded connectable conductor cross section / solid / according to CSA CZ2 2 No. 5-16 **minimum* **maximum* **standed* **trained* **standed* **trained* **standed* **standed*	operational current / of upstream fuse / rated value	160 A
posetance of comercial connectable conductor cross section / solid - social disconnectable conductor cross section / solid - social disconnectable conductor cross section / solid - social disconnectable conductor cross section / solid - sinanded / with core end processing - siranded / with core en	according UL	
poperating values of a AC / at 50/80 Hz / according to UL 489 / rated value poperating values of a AC / at 50/80 Hz / according to UL 508/UL 5		150 A
d89 / rated value operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value active power (Ph) / at AC / at 1480 V / according to UL 508/UL 60947-4-1 and UL 489 continuous current / of upstream fuse / according to UL / rated value bype of tose / according to UL 7 rated value Yupe of social vaccording to UL 7 rated value **MWG number / as coded connectable conductor cross section / solid / according to UL 489 **eminimum** **maximum** **MWG number / as coded connectable conductor cross section / solid / according to UL 489 **eminimum** **maximum** **MWG number / as coded connectable conductor cross section / solid / according to UL 489 **eminimum** **maximum** **MWG number / as coded connectable conductor cross section / solid / according to UL 489 **eminimum** **maximum** **MWG number / as coded connectable conductor cross section / solid / according to UL 489 **eminimum** **maximum** **To according to UL 489 **minimum** **maximum** **To according to UL 489 **eminimum** **To according to UL 489 **To according to UL		150 A
400 A same power flower		480 V
sos/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 continuous current / of upstream fuse / according to UL / rated value Whe of fuse / according to UL. Whe of fuse / according to UL. 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 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 US AC 22.2 No. 5-16 minimum maximum 10 11 12 13 32 20 14 16 185mm²) 17 185mm²) 17 1816m135mm²)		480 V
to UL 598/UL 60947-41 and UL 489 continuous current? of upstream fuse / according to UL. / rated value type of fuse / according to UL Connections AWK number / as coded connectable conductor cross section / solid		100
rated value type of fuse / according to UL Connections AWG number / as coded connectable conductor cross section / soid according to UL 489 minimum		50 kA
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section / solid 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 AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16 minimum amaximum 2/0 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 solid sinely stranded / with core end processing stranded internal auxiliary switch 2x (0.75 2,5mm²), 1x 4mm², front auxiliary switch 1x (2,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x 2,5mm² ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) ilateral auxiliary switch 2x (0,75 2,5mm²), 1x	Connections	
MWC number / as coded connectable conductor cross section / solid / according to UL 489		
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 3 2/0 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 • finely stranded / with core end processing • stranded type of connectable conductor cross-sections / for auxiliary contacts • solid • finely stranded / with core end processing • stranded steral auxiliary switch 1x (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 (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts Mechanical Design height vidth depth ype of device fixed mounting fastening method fastening method 4-hole front mounting • front mounting • front mounting • front mounting • rail mounting net weight Thyromatical conditions ambient temperature / during operation	• minimum	1
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AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16	• minimum	
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 connectable conductor cross-sections / for auxiliary contacts • solid • finely stranded / with core end processing • finely stranded / with core end processing • stranded stranded stranded stranded stranded type of electrical connection • for main current circuit • for auxiliary contacts witch 1x (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts mechanical Design height type of device fastening method fastening method fastening method • 4-hole front mounting • front mounting with central attachment • for net weight net weight Finely during operation and the processing of the connection of the processing of the processing of the connection terminals stranded and type of device fixed mounting Yes front mounting with central attachment • All mounting • Front mounting with central attachment • Call mounting • Front mounting with central attachment • Call mounting • Call of the processing of the proces		4/0
type of connectable conductor cross-sections / for copper conductor solid finely stranded / with core end processing type of connectable conductor cross-sections / for auxiliary solid s		
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 • stranded • stranded • stranded • for auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts * for auxiliary contacts * Solid * Soli		
conductor • solid • finely stranded / with core end processing • stranded type of connectable conductor cross-sections / for auxiliary contacts • solid • solid		2/0
• finely stranded / with core end processing • stranded type of connectable conductor cross-sections / for auxiliary contacts • solid • finely stranded / with core end processing • finely stranded / with core end processing • finely stranded / with core end processing • finely stranded / with core end processing • stranded • stranded • stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm²; front auxiliary switch 1x (2,75m²) • stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts box terminal • for auxiliary contacts box terminal connection terminals Mechanical Design height width 151 mm depth type of device fixed mounting fastening method eathering method eathe	conductor	
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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 • stranded 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 • for auxiliary contacts box terminal • for auxiliary contacts height	, ,	,
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type of electrical connection	• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary
• for main current circuit • for auxiliary contacts Mechanical Design height Midth Methanical Design height in 178 mm in 151 mm depth in 158 mm type of device fixed mounting fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature / during operation box terminal connection terminals box terminals head to connection terminals box terminals head to connection terminals ### Page ### ### ### ### ### ### ### ### ### #	type of electrical connection	
Mechanical Design height 178 mm width 151 mm depth 158 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes • front mounting with central attachment No • rail mounting No net weight 2 400 g Environmental conditions ambient temperature / during operation		box terminal
height 178 mm width 151 mm depth 158 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 net weight 2 400 g Environmental conditions ambient temperature / during operation	• for auxiliary contacts	connection terminals
width depth 158 mm type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature / during operation	Mechanical Design	
depth type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method	height	178 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 net weight 2 400 g Environmental conditions ambient temperature / during operation	width	151 mm
fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight • 4-hole front mounting with central attachment No Prail mounting No Ret weight 1 2 400 g Environmental conditions ambient temperature / during operation	•	
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting No net weight Environmental conditions ambient temperature / during operation		
4-hole front mounting front mounting with central attachment rail mounting No net weight Environmental conditions ambient temperature / during operation Yes No 2 400 g		Built-in unit fixed-mounted version
• front mounting with central attachment	3	Voo
● rail mounting net weight 2 400 g Environmental conditions ambient temperature / during operation	<u> </u>	
net weight 2 400 g Environmental conditions ambient temperature / during operation		
Environmental conditions ambient temperature / during operation	-	
ambient temperature / during operation		3
		-25 °C

maximum
 ambient temperature / during storage
 minimum
 maximum
 maximum
 55 °C
 General Product Approval
 Declaration of Conformity

(1)

Confirmation



EAC

CE EG-Konf.



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=3LD5810-0TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5810-0TL11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5810-0TL11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







