## **SIEMENS**

Data sheet 3LD5810-0TL13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 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, emergency switching-off, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

Model		
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	Floor mounting with door coupling	
design of the actuating element	door-coupling rotary operating mechanism	
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	3	
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	36 W	
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	
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	45 kW	

<ul> <li>at AC-3 at 400 V rated value</li> </ul>	75 kW	
at AC-3 at 400 V rated value      at AC-3 at 690 V rated value	75 KW 45 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	
<ul><li>switch disconnector</li><li>EMERGENCY OFF switch</li></ul>	Yes Yes	
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	
accessories		
product extension optional		
• motor drive	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	3	
number of connectable CO contacts for auxiliary contacts attachable maximum	0	
number of bracket locks maximum	3	
hasp thickness of the bracket locks	5 7.5 mm	
Short circuit		
conditional short-circuit current with line-side fuse protection	EO LA	
conditional short-circuit current with line-side fuse protection  • at 440 V by gG fuse rated value	50 kA	
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	50 kA 30 kA	
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	30 kA	
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		
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	30 kA 16 kA	
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 maximum  • at 690 V for combination switch + gG fuse maximum	30 kA 16 kA 16 kA	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible	30 kA 16 kA 16 kA	
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 maximum  • at 690 V for combination switch + gG fuse maximum permissible  12t value with closed switch	30 kA 16 kA 16 kA 15 kA	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  12t value with closed switch  • at 240 V for combination switch + gG fuse maximum	30 kA  16 kA  16 kA  15 kA	
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 maximum  • at 690 V for combination switch + gG fuse maximum permissible  12t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s	
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 maximum  • at 690 V for combination switch + gG fuse maximum permissible  12t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s  223 kA2.s	
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 maximum  at 690 V for combination switch + gG fuse maximum permissible  12t value with closed switch  at 240 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  for short-circuit protection of the main circuit required  for short-circuit protection of the auxiliary switch required	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s  223 kA2.s  Fuse gG: 160 A  fuse gL/gG: 10 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  12t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s  223 kA2.s	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  I2t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s  223 kA2.s  Fuse gG: 160 A  fuse gL/gG: 10 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  l2t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operational current at AC according to UL 508/UL 60947-4-1	30 kA  16 kA  16 kA  15 kA  223 kA2.s  223 kA2.s  Fuse gG: 160 A  fuse gL/gG: 10 A  160 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  12t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated	30 kA  16 kA 16 kA 15 kA  223 kA2.s 223 kA2.s 223 kA2.s Fuse gG: 160 A fuse gL/gG: 10 A  150 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  12t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL	30 kA  16 kA 16 kA 15 kA  223 kA2.s 223 kA2.s 223 kA2.s Fuse gG: 160 A fuse gL/gG: 10 A  150 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  I2t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated value	16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s 223 kA2.s Fuse gG: 160 A fuse gL/gG: 10 A 150 A 150 A	
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 maximum  • at 690 V for combination switch + gG fuse maximum permissible  I2t value 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 maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  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 60947-	16 kA 16 kA 15 kA 223 kA2.s 223 kA2.s 223 kA2.s Fuse gG: 160 A fuse gL/gG: 10 A 150 A 150 A 480 V	
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 maximum  • at 690 V for combination switch + gG fuse maximum  permissible  l2t value 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 maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated value  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 60947-4-1 rated value  short-time withstand current (SCCR) at 480 V according to UL	16 kA 16 kA 15 kA  223 kA2.s 223 kA2.s 223 kA2.s Fuse gG: 160 A fuse gL/gG: 10 A 160 A  150 A  480 V  480 V	

1	
4/0	
1	
4/0	
3	
2/0	
1x (16185mm²)	
1x (16150mm²)	
1x (16185mm²)	
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)	
box terminal	
connection terminals	
178 mm	
151 mm	
158 mm	
fixed mounting	
Built-in unit fixed-mounted version	
Yes	
No	
No	
2 400 q	
-25 °C	
-25 °C	
55 °C	
	1 4/0  3 2/0  1x (16185mm²) 1x (16150mm²) 1x (16185mm²) 1x (16185mm²)  lateral auxiliary switch 2x (0,75 (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 2,5mm² lateral auxiliary switch 2x (0,75 (0,75 2,5mm²) box terminal connection terminals  178 mm 151 mm 158 mm fixed mounting Built-in unit fixed-mounted vers  Yes No No 2 400 g



Confirmation









other

<u>Miscellaneous</u>

Confirmation

Further information

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=3LD5810-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5810-0TL13

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

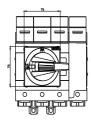
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5810-0TL13

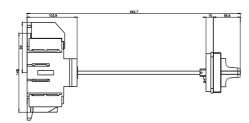
**CAx-Online-Generator** 

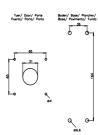
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









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