SIEMENS

Data sheet 3LD5800-0TL13



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 direct handle, red/yellow, 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 direct drive		
design of the actuating element	selector switch		
color of the actuating element	red		
design of handle	knob-operated 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	IP00		
protection class IP on the front	IP00		
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		
• 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
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	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts	1
attachable maximum	
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	3
hasp thickness of the bracket locks	5 7.5 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	30 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	16 kA
 at 440 V for combination switch + gG fuse maximum 	16 kA
 at 690 V for combination switch + gG fuse maximum permissible 	15 kA
l2t value with closed switch	
at 240 V for combination switch + gG fuse maximum	223 kA2.s
• at 440 V for combination switch + gG fuse maximum	223 kA2.s
at 690 V for combination switch + gG fuse maximum	223 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	Fuse gG: 160 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	160 A
according UL	
operational current at AC according 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 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 60947-4-1 rated value	100
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
Connections	
AWG number as coded connectable conductor cross section	
solid	

maximum 4/10 4/1	• minimum	1			
AWG number as coded connectable conductor cross section solid according to UL 499 - minimum - maximum AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 - minimum - maximum 3 - maximum 2/0 type of connectable conductor cross-sections for copper conductor - solid - finely stranded with core end processing - stranded - solid - finely stranded with core end processing - stranded - solid - finely stranded with core end processing - solid - finely stranded with core end processing - stranded - solid - finely stranded with core end processing - solid -					
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fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • maximum -25 °C ambient temperature during storage • minimum -25 °C • maximum -25 °C -25 °C -55 °C	depth	158 mm			
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum 55 °C	type of device	fixed mounting			
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ambient temperature during storage • minimum -25 °C • maximum 55 °C	• minimum	-25 °C			
 minimum -25 °C maximum 55 °C 	• maximum	55 °C			
• maximum 55 °C	ambient temperature during storage				
	• minimum	-25 °C			
General Product Approval Declaration of Conformity	• maximum	55 °C			
	General Product Approval		Declaration of Conformity		



Confirmation









other

Miscellaneous 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. $\label{eq:continuous}$

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=3LD5800-0TL13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD5800-0TL13

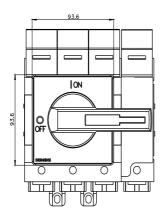
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5800-0TL13

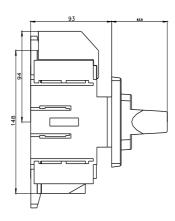
CAx-Online-Generator

http://www.siemens.com/cax

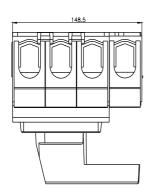
Tender specifications

http://www.siemens.com/specifications









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