## SIEMENS

## Data sheet

## 3LD2050-1TL13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, knob-operated mechanism, Red / yellow, central mounting 22.5 mm of the handle

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	front mounted			
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	1			
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	0.5 W			
Main circuit				
operational current				
• at AC-21 at 690 V rated value	16 A			
• at AC-21 A at 240 V rated value	16 A			
• at AC-21 A at 400 V rated value	16 A			
• at AC-21 A at 440 V rated value	16 A			
• at AC-23 A at 400 V rated value	16 A			

operating power	4 1000
at AC-23 A at 240 V rated value	4 kW
at AC-23 A at 400 V rated value	8 kW
• at AC-23 A at 440 V rated value	7.5 kW
• at AC-23 A at 690 V rated value	8 kW
• at AC-3 at 240 V rated value	3 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	6 KW
• at AC-3 at 690 V rated value	5.5 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
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	1
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	2
hasp thickness of the bracket locks	4 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
• at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	3 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 690 V for combination switch + gG fuse maximum	3 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
operational current of upstream fuse rated value	20 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	16 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value	7.5
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	10
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	50 A

type of fuse according to UL		RK5					
Connections							
AWG number as coded connectable conductor cros	s section						
solid maximum							
•		10					
•		18					
type of connectable conductor cross-sections for co conductor	pper						
• solid		1 v (1 6	mm <sup>2</sup> )				
		1x (16					
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		1x (14					
• stranded	william	1x (16r	nm-)				
type of connectable conductor cross-sections for au contacts	ixiliary						
solid		2x (0.75	2.5 mm²), 1x 4 m	im²			
<ul> <li>finely stranded with core end processing</li> </ul>			1.5 mm²), 1x 2.5				
stranded			2.5 mm²), 1x 4 m				
type of electrical connection							
for main current circuit		box term	inal				
for auxiliary contacts			on terminals				
Mechanical Design		Connecti					
		66 mm					
height							
width		49 mm 113.5 m	~				
	depth						
type of device		fixed mo	-				
fastening method		Built-in L	init fixed-mounted v	ersion			
fastening method							
• 4-hole front mounting		No					
<ul> <li>front mounting with central attachment</li> </ul>		Yes					
rail mounting		No					
net weight		199 g					
Environmental conditions							
ambient temperature during operation							
• minimum			-25 °C				
• maximum		55 °C					
ambient temperature during storage							
• minimum		-25 °C					
• maximum		55 °C					
Approvals Certificates							
General Product Approval							
	Confirmation			ŝ	$\wedge$		
	CE UK Confirmatio		( <b>m</b> )	(VL)	(D'E)		
EG-Konf.				Ŷ	VDE		
				01	105		
General Product Approval	Marine / Shipp	ing	other		Environment		
					Littlioinit		
Miscellaneous			<b>Confirmation</b>	Miscellaneous	Environmental Con-		
	Lloyd's Register				firmations		
ENL							
=	LRS						
<b>F</b> actor and							
Environment							
Environmental Leas							
Environmental Con- firmations							

Further information 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=3LD2050-1TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2050-1TL13

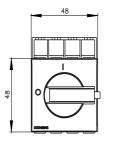
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2050-1TL13

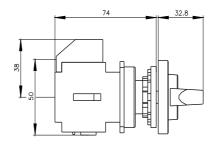
CAx-Online-Generator

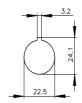
http://www.siemens.com/cax

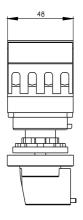
**Tender specifications** 

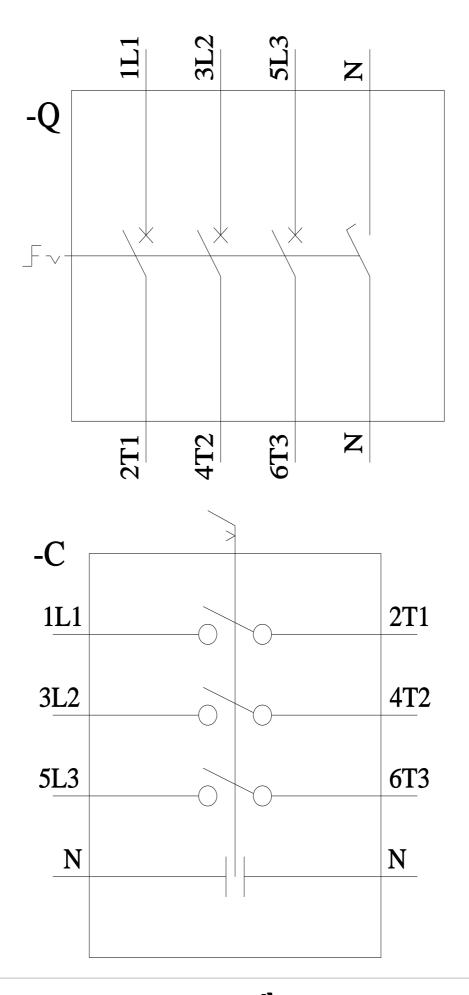
http://www.siemens.com/specifications











## last modified:

6/20/2023 🖸

Subject to change without notice © Copyright Siemens