SIEMENS

Data sheet

3LD3050-1TL13

Switch disconnector 3LD3, main switch 3-polig + N, lu 16A operational switch at AC-23 A at 400 V 7,5 kW front mounted Base mounting with center-hole 22,5 mm knob-operated mechanism red/yellow 48 x 48 mm with auxiliary 1NO+1NC



Model	
Product brand name	SENTRON
Product designation	3LD Switch disconnector
Design of the product	EMERGENCY-STOP switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of the operating mechanism	selector switch
Design of handle	knob-operated mechanism, red/yellow
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	4
Type of device	fixed mounting
Type of switch	front mounted
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
Protection class IP / on the front	IP65
Dissipation	
Power loss [W]	
 for rated value of the current / at AC / in hot 	0.5 W
operating state / per pole	
Electricity Current / at AC / rated value	16 A
Continuous current / rated value	16 A
Short-time current resistance (Icw) / at 690 V / limited	500 A
to 1 s / rated value	300 A
Main circuit	
Operating frequency	50.11-
• initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
 at AC-23 A / at 400 V / rated value 	7.5 kW
 at AC-23 A / at 690 V / rated value 	7.5 kW
• at AC-3 / at 400 V / rated value	5.5 kW
• at AC-3 / at 690 V / rated value	5.5 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Auxiliary circuit	
Operating voltage / of auxiliary contacts / at AC /	500 V
maximum	
Continuous current / of the auxiliary contact / rated	10 A
	500.14
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 / interlock	Yes
Product extension / optional	
motor drive	No
Voltage trigger	No

Design of the fuse link for short-circuit protection of the main circuit / required for short-circuit protection of the auxiliary switch / required fuse gL/gG: 20 A fuse gL/gG: 10 A fuse gL/gG: 10 A Acchanical Design Height 60 mm Width 60 mm Depth 114 mm Mounting type Built-in unit fixed-mounted version Mounting type Suit-in unit fixed-mounted version Mounting type Suit-in unit fixed-mounted version Mounting type Suit-in unit fixed-mounted version Mounting type No front mounting with 4-hole attachment front mounting with central attachment Yes No fuse gL/gG: 20 g 200 g furing operation / minimum f-25 °C curing operation / maximum -25 °C S5 °C	Short-time current resistance (Icw) / limited to 1 s / rated value	500 kA
Connections Type of electrical connection Box terminal • for main current circuit Box terminal Design of the fuse link • for short-circuit protection of the main circuit / required fuse gL/gG: 20 A • for short-circuit protection of the auxiliary switch / required fuse gL/gG: 10 A • for short-circuit protection of the auxiliary switch / required 60 mm Midth 60 mm Design of the fuse link 60 mm Width 60 mm Depth 114 mm Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting type 200 g Invironmental conditions -25 °C Ambient temperature -25 °C • during operation / minimum -25 °C • during operation / minimum 55 °C Serufficates Equipment marking • acc. to DIN EN 61346-2 S • acc. to DIN EN 61346-2 SF	Number of NC contacts	1
Type of electrical connection Box terminal • for main current circuit Box terminal Requirements Edeptition Design of the fuse link fuse gL/gG: 20 A • for short-circuit protection of the main circuit / required fuse gL/gG: 10 A • for short-circuit protection of the auxiliary switch / required fuse gL/gG: 10 A / required 60 mm Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting type No • for throunting with 4-hole attachment No • rail mounting No Net weight 200 g environmental conditions -25 °C Ambient temperature -25 °C • during operation / minimum -25 °C • during operation / minimum 55 °C SetUpment marking acc. to DIN EN 61346-2 S • acc. to DIN EN 61346-2 SF	Number of NO contacts	1
• for main current circuit Box terminal Requirements Event Design of the fuse link • for short-circuit protection of the main circuit / required fuse gL/gG: 20 A • for short-circuit protection of the auxiliary switch / required fuse gL/gG: 10 A Rechanical Design 60 mm Height 60 mm Width 60 mm Depth 114 mm Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting type O • front mounting with 4-hole attachment No • front mounting with 4-hole attachment Vo • front mounting with 4-hole attachment S • front mounting with 4-hole attachment <td></td> <td></td>		
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 gL/gG: 20 A fuse gL/gG: 10 A fuse gL/gd: 10 A fuse gL/gd: 10 A fuse gL/gd: 10 A	Type of electrical connection	
• for short-circuit protection of the main circuit / requiredfuse gL/gG: 20 A fuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch / requiredfuse gL/gG: 10 A#eight60 mmWachanical Design60 mmWidth60 mmDepth114 mmMounting typeBuilt-in unit fixed-mounted versionMounting typeNo• front mounting with 4-hole attachment • front mounting with central attachment • rail mountingNoNet weight200 gEnvironmental conditions-25 °C • S °C • S °CContificatesEEquipment marking • acc. to DIN EN 61346-2SendSF	• for main current circuit	Box terminal
• for short-circuit protection of the main circuit / requiredfuse gL/gG: 20 A fuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch / requiredfuse gL/gG: 10 A#eight60 mmWachanical Design60 mmWidth60 mmDepth114 mmMounting typeBuilt-in unit fixed-mounted versionMounting typeNo• front mounting with 4-hole attachment • front mounting with central attachment • rail mountingNoNet weight200 gEnvironmental conditions-25 °C • S °C • S °CContificatesEEquipment marking • acc. to DIN EN 61346-2SendSF	Requirements	
required fuse gL/gG: 10 A /required fuse gL/gG: 10 A /required 60 mm Width 60 mm Depth 114 mm Mounting type Built-in unit fixed-mounted version Mounting type Built-in unit fixed-mounted version Mounting with 4-hole attachment No front mounting with 4-hole attachment Yes effort mounting with 0-hole attachment Yes effort mounting 0-box Store effort mounting 0-box Store eduring operation / maximum -25 °C Store Store	Design of the fuse link	
/ required ////////////////////////////////////		fuse gL/gG: 20 A
Height 60 mm Width 60 mm Depth 114 mm Mounting type Built-in unit fixed-mounted version Mounting type • front mounting with 4-hole attachment • front mounting with central attachment No • front mounting with central attachment Yes • rail mounting No Net weight 200 g Environmental conditions -25 °C Ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 55 °C Sectificates Equipment marking • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF		fuse gL/gG: 10 A
Width60 mmDepth114 mmMounting typeBuilt-in unit fixed-mounted versionMounting typeVersion• front mounting with 4-hole attachmentNo• front mounting with central attachmentYes• front mounting with central attachmentYes• rail mountingNoNet weight200 gEnvironmental conditions	Aechanical Design	
Depth114 mmMounting typeBuilt-in unit fixed-mounted versionMounting type• front mounting with 4-hole attachmentNo• front mounting with central attachmentYes• rail mountingNoNet weight200 gEnvironmental conditionsAmbient temperature • during operation / maximum-25 °C• during operation / maximum55 °CCertificatesEquipment marking • acc. to DIN EN 61346-2S• acc. to DIN EN 81346-2SF	Height	60 mm
Mounting typeBuilt-in unit fixed-mounted versionMounting typeNo• front mounting with 4-hole attachmentNo• front mounting with central attachmentYes• rail mountingNoNet weight200 gEnvironmental conditionsAmbient temperature-25 °C• during operation / minimum-25 °C• during operation / maximum55 °CCertificatesEquipment markingS• acc. to DIN EN 61346-2S• acc. to DIN EN 81346-2SF	Width	60 mm
Mounting type No • front mounting with 4-hole attachment No • front mounting with central attachment Yes • rail mounting No Net weight 200 g Environmental conditions -25 °C • during operation / minimum -25 °C • during operation / maximum 55 °C Certificates -25 °C Equipment marking -25 °C • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	Depth	114 mm
• front mounting with 4-hole attachmentNo• front mounting with central attachmentYes• rail mountingNoNet weight200 gEnvironmental conditions200 gAmbient temperature-25 °C• during operation / minimum-25 °C• during operation / maximum55 °CCertificates200 gEquipment markingS• acc. to DIN EN 61346-2S• acc. to DIN EN 81346-2SF	Mounting type	Built-in unit fixed-mounted version
 Front mounting with central attachment Front mounting with central attachment Yes No Net weight 200 g Environmental conditions Ambient temperature during operation / minimum -25 °C during operation / maximum 55 °C Certificates Equipment marking acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 SF 	Mounting type	
• rail mountingNoNet weight200 gEnvironmental conditions	 front mounting with 4-hole attachment 	No
Net weight 200 g Environmental conditions -25 °C Ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 55 °C Certificates -25 °C Equipment marking -25 °C • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	 front mounting with central attachment 	Yes
Environmental conditions Ambient temperature • during operation / minimum • during operation / maximum 55 °C Certificates Equipment marking • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	• rail mounting	No
Ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 55 °C Certificates -25 °C Equipment marking -25 °C • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	Net weight	200 g
• during operation / minimum • during operation / maximum-25 °C 55 °CCertificatesEquipment marking • acc. to DIN EN 61346-2S SF• acc. to DIN EN 81346-2SF	Environmental conditions	
• during operation / maximum 55 °C Certificates Equipment marking • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 SF	Ambient temperature	
Certificates Equipment marking • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	 during operation / minimum 	-25 °C
Equipment marking • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	 during operation / maximum 	55 °C
• acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 SF	Certificates	
• acc. to DIN EN 81346-2 SF	Equipment marking	
	• acc. to DIN EN 61346-2	S
Declaration of Conformity	• acc. to DIN EN 81346-2	SF
	Declaration of Conformity	

urther information

EG-Konf.

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3050-1TL13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3050-1TL13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3050-1TL13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







