## **SIEMENS**

Data sheet 3LD2017-1TL13



SENTRON, switch disconnector 3LD, EMERGENCY OFF switch, 4-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, floor mounting with door coupling, defeatable knob-operated mechanism, red/yellow, 4-hole mounting of the handle

product brand name   SENTRON	Model		
design of the product display version / for switch position indicator manual operation type of switch for switch for switch for actuating element selector switch feesign of the actuating element design of handle knob-operated mechanism, red/yellow type of the driving mechanism / motor drive for the driving mechanism / motor drive No  Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) at AC-23 A / at 690 V operating frequency / maximum degree of pollution  Voltage insulation voltage / rated value operating voltage resistance / rated value operating frequency / rated value operating frequency / rated value ominimum maximum handle maximum handle maximum handle  Foo Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value  at 40 °C / rated value  foo AC / rated value  at 40 °C / rated value  foo AC / rated value  foo AC / rated value  for AC / rated value	product brand name	SENTRON	
display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element type of switch fandle type of the driving mechanism / motor drive type of switch disconnector the design of the driving mechanism, red/yellow type of the driving mechanism / motor drive type of switch disconnector the design of the driving mechanism, red/yellow type of the driving mechanism, red/yellow to operating fereille (switching cycles) / typical type of switch disconnector the design of the driving mechanism, red/yellow to operating fereille (switching cycles) / typical to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mechanism, red/yellow to 0000 the design of the driving mecha	product designation	3LD Switch disconnector	
operation type of switch design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive  General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / et AC-23 A / at 690 V operating frequency / maximum degree of pollution 3  Voltage insulation voltage / rated value operating voltage	design of the product	EMERGENCY-STOP switch	
design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive No  General technical data  number of poles 4 size of switch disconnector 1 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / o at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3  Voltage insulation voltage / rated value operating voltage • at AC / rated value operating requency / rated value • minimum  50 Hz • maximum  50 Hz • maximum  50 Hz  60 Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation  Dower loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value • at 40 °C / rated value • operational current • at 40 °C / rated value  • at 40 °C / rated value • operational current • at 40 °C / rated value  • at 40 °C / rated value • at 40 °C / rated value • operational current • at 40 °C / rated value  • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value		1 ON - 0 OFF	
color / of the actuating element design of handle type of the driving mechanism / motor drive  Reneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching	type of switch	Floor mounting with door coupling	
design of handle type of the driving mechanism / motor drive No  General technical data  number of poles	design of the actuating element	selector switch	
type of the driving mechanism / motor drive  General technical data  number of poles 4 size of switch disconnector 1 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3  Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / material value 690 V surge voltage resistance / rated value 690 V operating voltage resistance / rated value 690 V operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 60 Hz  Protection class IP 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  Current operational current / rated value 16 A  operational current / rated value 16 A	color / of the actuating element	red	
General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum for the degree of pollution  Voltage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value  • at AC / rated value • minimum • maximum  Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current • at 40 °C / rated value  • at 40 °C / rated value  16 A  operational current / rated value  • at 40 °C / rated value	design of handle	knob-operated mechanism, red/yellow	
number of poles size of switch disconnector 1 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V  operating frequency / maximum 50 1/h degree of pollution 3  Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / fated value • minimum • maximum 50 Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front possessible of the current / at AC / in hot operating state / per pole  Current • at 40 °C / rated value  100 000  100 000  6 000  6 000  6 000  6 8V  6 90 V  6 800 V  6 900 V	type of the driving mechanism / motor drive	No	
size of switch disconnector  mechanical service life (switching cycles) / typical 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 690 V operating voltage  • at AC / rated value 690 V operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 600 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  Current  operational current / rated value 16 A  operational current / rated value 16 A	General technical data		
mechanical service life (switching cycles) / typical electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum 50 1/h degree of pollution 3  Voltage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  50 Hz  Protection class  protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value  • at 40 °C / rated value	number of poles	4	
electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  degree of pollution  3  Voltage  insulation voltage / rated value  surge voltage resistance / rated value  operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  foo Hz  Protection class IP  degree of protection NEMA rating  protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  16 A  operational current  • at 40 °C / rated value  16 A	size of switch disconnector	1	
at AC-23 A / at 690 V operating frequency / maximum degree of pollution  3  Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value foo Hz  Protection class  protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value of the current / at AC value operational current / rated value operational current / rated value operational current operational current operational current operational current	mechanical service life (switching cycles) / typical	100 000	
operating frequency / maximum degree of pollution 3  Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum • maximum  Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value • at 40 °C / rated value  16 A	electrical endurance (switching cycles)		
degree of pollution  Voltage  insulation voltage / rated value 690 V surge voltage resistance / rated value 680 V operating voltage  • at AC / rated value 690 V operating frequency / rated value  • minimum 50 Hz  • maximum 60 Hz  Protection class  protection class IP 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  Current operational current / rated value 16 A  operational current / rated value 16 A  operational current • at 40 °C / rated value 16 A	• at AC-23 A / at 690 V	6 000	
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  Current operational current / rated value 16 A operational current • at 40 °C / rated value 16 A	operating frequency / maximum	50 1/h	
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  Current operational current / rated value 16 A  operational current • at 40 °C / rated value 16 A	degree of pollution	3	
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum	Voltage		
operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  60 Hz  Protection class  protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  16 A  operational current  • at 40 °C / rated value  16 A	insulation voltage / rated value	690 V	
at AC / rated value  operating frequency / rated value  ominimum  omaximum  foo Hz  Protection class  protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  at 40 °C / rated value  food	surge voltage resistance / rated value	6 kV	
operating frequency / rated value	operating voltage		
<ul> <li>minimum</li> <li>maximum</li> <li>60 Hz</li> </ul> Protection class protection class IP <ul> <li>degree of protection NEMA rating</li> <li>protection class IP / on the front</li> <li>IP65</li> </ul> Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current <ul> <li>operational current / rated value</li> <li>operational current</li> <li>at 40 °C / rated value</li> <li>16 A</li> </ul>	at AC / rated value	690 V	
● maximum  Protection class  protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  ● at 40 °C / rated value  16 A	operating frequency / rated value		
protection class IP  degree of protection NEMA rating 1, 3R, 4X, 12  protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  • at 40 °C / rated value  IP65  0.5 W  0.5 W  16 A	• minimum	50 Hz	
protection class IP  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  Current  operational current / rated value  at 40 °C / rated value  16 A	• maximum	60 Hz	
degree of protection NEMA rating  protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  • at 40 °C / rated value  1, 3R, 4X, 12  IP65  0.5 W  0.5 W  16 A	Protection class		
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  Current  operational current / rated value 16 A  operational current  • at 40 °C / rated value 16 A	protection class IP	IP65	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  16 A	degree of protection NEMA rating	1, 3R, 4X, 12	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  16 A	protection class IP / on the front	IP65	
hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  16 A	Dissipation		
operational current / rated value 16 A operational current  • at 40 °C / rated value 16 A		0.5 W	
operational current  • at 40 °C / rated value 16 A	Current		
• at 40 °C / rated value 16 A	operational current / rated value	16 A	
	operational current		
• at 45 °C / rated value 16 A	<ul> <li>at 40 °C / rated value</li> </ul>	16 A	
	• at 45 °C / rated value	16 A	

a at E0 °C / rated value	16 A
• at 50 °C / rated value	16 A
• at 55 °C / rated value	16 A
at AC / rated value	16 A
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
<ul><li>at AC-21 A / at 400 V / rated value</li></ul>	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	
• 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
• at AC-3 / at 400 V / rated value	6 kW
at AC-3 / at 690 V / rated value  Applications alreads	5.5 kW
Auxiliary circuit	0
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 10 A
continuous current / of the auxiliary contact / rated value	500 V
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	
suitability for use	V
• main switch	Yes
switch disconnector     FMEROENOV OFF withh	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
f 1 21 1	V
• safety switch	Yes
maintenance/repair switch	Yes Yes
maintenance/repair switch  Product details	Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position	
maintenance/repair switch  Product details  product feature / can be locked into OFF position accessories	Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes Yes
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional      motor drive	Yes Yes No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional     motor drive     voltage trigger	Yes Yes No No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional     motor drive     voltage trigger  number of connectable NC contacts / for auxiliary contacts / attachable / maximum	Yes  Yes  No No 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional     motor drive     voltage trigger  number of connectable NC contacts / for auxiliary contacts	Yes Yes No No
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  Yes  No No 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2  3 0
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 3 0
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 3 0
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No 2 3 0
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2  3  4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2  3  4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2  3  0  3 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2  3  0  3  4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 3 0 3 4 6 mm
maintenance/repair switch  Product details  product feature / can be locked into OFF position  accessories  product extension / optional	Yes  No No No 2 3 4 6 mm  50 kA 3 kA 3 kA 3 kA

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit / required	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 cross section / solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
<ul><li>finely stranded / with core end processing</li></ul>	1x (14mm²)
• stranded	1x (16mm²)
type of connectable conductor cross-sections / for	
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	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	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	75 mm
width	67 mm
depth	385 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul> <li>4-hole front mounting</li> </ul>	Yes
<ul> <li>front mounting with central attachment</li> </ul>	No
• rail mounting	Yes
net weight	418 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	





Confirmation





**Miscellaneous** 

**General Product Approval** 

**Declaration of Conformity** 

Marine / Shipping

other









Environmental Confirmations **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=3LD2017-1TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2017-1TL13

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2017-1TL13

**CAx-Online-Generator** 

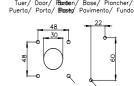
http://www.siemens.com/cax

**Tender specifications** 

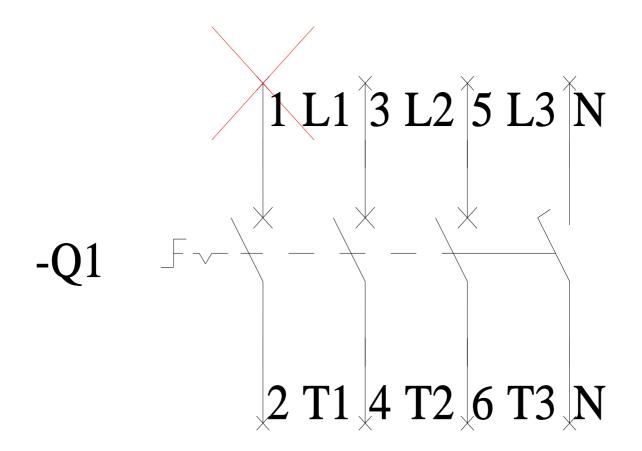
http://www.siemens.com/specifications











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