## **SIEMENS**

Data sheet 3LD3150-1TK11



Load disconnector 3LD3, lu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 48x48 mm with auxiliary switch 1OE + 1S

product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element selector switch design of the actuating element black design of he actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No Genoral tochnical data number of poles number of poles / note nechanical 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  Voltago insulation voltage / rated value operating voltage • at AC / trated 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  operational current / rated value	Model		
design of the product  display version / for switch position indicator manual operation  type of switch  design of the actuating element  color / of the actuating element  design of handle  knob-operated mechanism, black  type of the driving mechanism / motor drive  Concral technical data  number of poles   3  number of poles / note  mechanical service life (switching cycles) / typical   100 000    electrical endurance (switching cycles) / 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 requency / rated value   690 V    operation disas IP / on the front   IP65    Dissipation   power loss [W] / for rated value of the current / at AC / in hot operating state / per pole    Current   operation a current / rated value   25 A    operational current / rated value   25 A	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 design of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No  General technical data number of poles / note 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 3  Voltage insulation voltage / rated value operating frequency / rated value • at AC / rated value • minimum • maximum  50 Hz edgree of protection NEMA rating protection class IP / on the front Dissipation  Dissipation  Operation at 40 °C / rated value • at 40 °C / rated value  operation at value  Operational current / rated value  Operational current  Operational current / rated value  Operational current / rated value  Operational current / rated value  Operational current / operational current  Operational current / at 40 °C / rated value  Operational current  Operational current / at 40 °C / rated value  Operational current  Operational current  Operational current / at 40 °C / rated value  Operational current / at 40 °C / rated value  Operational current / at 40 °C / rated value  Operational current / at 40 °C / rated value  Operational current / at 40 °C / rated value  Operational current / at 40 °C / rated value	product designation	3LD Switch disconnector	
type of switch  type of switch  design of the actuating element  color / of the actuating element  design of handle  type of the driving mechanism / motor drive  Foenart technical data  number of poles  number of poles   3  number of poles   3  number of poles   100 000  electrical endurance (switching cycles) / typical   100 000  electrical endurance (switching cycles) / e at AC-23 A 14 690 V   6 000  operating frequency / maximum   50 1/h  degree of pollution   3  Voltage  insulation voltage / rated value   690 V    operating voltage   e 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 voltage   e at AC / rated value   690 V    operating frequency / rated value   690 V    operating step / rated value   690 V    operating step / rated value   690 V    operation class IP /  operation class IP / on the front   IP65    Dissipation   1, 3R, 4X, 12    protection class IP / on the front   IP65    Dissipation   1, 1 W    operational current / rated value   25 A	design of the product	Main switch	
design of the actuating element black color / of the driving mechanism / motor drive No		1 ON - 0 OFF	
color / of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive  Ceneral technical data  number of poles / note 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 for of poles / nate insulation voltage / rated value operating voltage at AC / rated value operating frequency / rated value operation frequency / rated value operation 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 operational current / rated value operational current operatio	type of switch	front mounted	
design of handle kpp of the driving mechanism / motor drive No  Ceneral technical data number of poles   3 number of poles   3 number of poles / note   3 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   690 V   surge voltage resistance / rated value   690 V   operating frequency / maximum   50 Hz   insulation voltage / rated value   690 V   operating voltage   4 AC / rated value   690 V   operating frequency / rated value   690 Hz    Protection class IP   IP65   degree of protection NEMA rating   1, 3R, 4X, 12   protection class IP / on the front   IP65   Dissipation   Dissipation   Dissipation   Operational current / rated value   25 A   Operational current / rated value   25 A   Operational current / rated value   25 A	design of the actuating element	selector switch	
type of the driving mechanism / motor drive    General technical data   number of poles   3   3   3   3   3   3   3   3   3	color / of the actuating element	black	
Content technical data   number of poles   3   number of poles / note   3   3     100 000	design of handle	knob-operated mechanism, black	
number of poles number of poles / note number of note number of poles / note number of note number of poles / note number of	type of the driving mechanism / motor drive	No	
number of poles / note  mechanical service life (switching cycles) / typical  electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  degree of pollution  7 voltage  insulation voltage / rated value  surge voltage resistance / rated value  • at AC / rated value  • at AC / rated value  • minimum  operating frequency / rated value  • 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  • at 40 °C / rated value  25 A  operational current  • at 40 °C / rated value  25 A	General technical data		
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 6 kV operating yoltage  • 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 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 25 A operational current / rated value 25 A operational current • at 40 °C / rated value 25 A	number of poles	3	
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 resistance / rated value  • at AC / rated value  • at AC / 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  25 A  operational current  • at 40 °C / rated value  25 A	number of poles / note	3	
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 operating frequency / rated value ominimum o	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 operating frequency / rated value ominimum summ for Hz omaximum  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 o at 40 °C / rated value 25 A	electrical endurance (switching cycles)		
degree of pollution  Voltage  insulation voltage / rated value  surge voltage resistance / rated value  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  25 A  operational current  • at 40 °C / rated value  25 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 25 A operational current • at 40 °C / rated value 25 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 25 A  operational current  • at 40 °C / rated value 25 A	degree of pollution	3	
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum  50 Hz • 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 • at 40 °C / rated value  6 kV  6 kV  690 V  690 V  6 kV  690 V  6 kV  690 V  6 kV  690 V  6 kV  6 kV  690 V  6 kV  6 kV  690 V  6 kV  6	Voltage		
operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  50 Hz  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  • at 40 °C / rated value  690 V  690	insulation voltage / rated value	690 V	
at AC / rated value  operating frequency / rated value  iminimum	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>at 40 °C / rated value</li> <li>25 A</li> </ul> 25 A 25 A 25 A	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  60 Hz  IP65  1, 3R, 4X, 12  IP65  1.1 W  1.1 W  25 A	operating frequency / rated value		
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  operational current  • at 40 °C / rated value  IP65  1, 3R, 4X, 12  1, 3R,	• 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  operational current  • at 40 °C / rated value  25 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  operational current  • at 40 °C / rated value  1, 3R, 4X, 12  IP65  1.1 W  1.1 W  25 A	Protection class		
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  1.1 W  25 A	protection class IP	IP65	
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  25 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  25 A	protection class IP / on the front	IP65	
hot operating state / per pole  Current  operational current / rated value  operational current  operational current  operational current  25 A  25 A	Dissipation		
operational current / rated value 25 A operational current  • at 40 °C / rated value 25 A		1.1 W	
operational current  • at 40 °C / rated value 25 A	Current		
• at 40 °C / rated value 25 A	operational current / rated value	25 A	
	operational current		
• at 45 °C / rated value 25 A	<ul> <li>at 40 °C / rated value</li> </ul>	25 A	
	<ul> <li>at 45 °C / rated value</li> </ul>	25 A	

• at 50 °C / rated value	25 A
• at 55 °C / rated value	25 A
at AC / rated value	25 A
Main circuit	
operational current	
<ul><li>at AC-21 / at 690 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 240 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 400 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 440 V / rated value</li></ul>	25 A
at AC-23 A / at 400 V / rated value	20 A
operating power	
<ul><li>at AC-23 A / at 240 V / rated value</li></ul>	4 kW
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	10 kW
<ul><li>at AC-23 A / at 440 V / rated value</li></ul>	9 kW
<ul><li>at AC-23 A / at 690 V / rated value</li></ul>	9 kW
<ul><li>at AC-3 / at 240 V / rated value</li></ul>	4 kW
<ul><li>at AC-3 / at 400 V / rated value</li></ul>	8 kW
• at AC-3 / at 690 V / rated value	7.5 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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	
<ul><li>main switch</li></ul>	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
<ul><li>safety switch</li></ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
• maintenance/repair switch	1 65
Product details	165
<u> </u>	Can be locked in zero position
Product details	
Product details special product feature	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position accessories	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive	Can be locked in zero position Yes
Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes  No
Product details  special product feature  product feature / can be locked into OFF position  accessories  product extension / optional  • motor drive  • voltage trigger  number of connectable NC contacts / for auxiliary contacts	Can be locked in zero position Yes  No No
Product details  special product feature  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  number of connectable NO contacts / for auxiliary contacts	Can be locked in zero position Yes  No No 2
product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes  No No 2
product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes  No No O
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 2
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 2 4 6 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 2 4 6 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 2 4 6 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 2 4 6 mm
product details  special product feature  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  number of connectable NO contacts / for auxiliary contacts / attachable / maximum  number of connectable CO contacts / for auxiliary contacts / attachable / maximum  number of bracket locks / maximum  number of bracket locks / maximum  hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • at 690 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 /	Can be locked in zero position Yes  No No No 2 4 0 2 4 6 mm
product details  special product feature  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  number of connectable NO contacts / for auxiliary contacts / attachable / maximum  number of connectable CO contacts / for auxiliary contacts / attachable / maximum  number of bracket locks / maximum  number of bracket locks / maximum  hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 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	Can be locked in zero position Yes  No No No 2 4 0 2 4 6 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No No 2 4 0 2 4 6 mm

maximum	
• at 440 V / for combination switch + gG fuse /	4 kA2.s
maximum	. 10 = 10
at 690 V / for combination switch + gG fuse / maximum	4 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 25 A
for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	25 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
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	6
• minimum	14
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (2.5 to 16 mm²)
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded / with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
• for main current circuit	box terminal
for auxiliary contacts	Box terminals
Mechanical Design	CO 1999
height width	60 mm 47 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
4-hole front mounting	No
<ul> <li>front mounting with central attachment</li> </ul>	Yes
rail mounting	No
net weight	200 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum  ambient temperature / during storage	55 °C
ambient temperature / during storage	25 °C
minimum     maximum	-25 °C 55 °C
General Product Approval	Declaration of Conformity
outloid i roddot Approvai	Decidiation of Comornity



Confirmation









other

**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=3LD3150-1TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3150-1TK11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3150-1TK11

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







