SIEMENS

Data sheet 3LD2405-1TL11



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu=250 A, Operating power / at AC-23 A at 400 V: 132 kW, front-mounted, knob-operated mechanism, black, 4-hole mounting of the handle

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 hea actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General 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 680 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value operating voltage • at AC / trated value • minimum • at a maximum Frotection class IP edgree 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 • operational current / rated value • operational current / rated value • operational current / rated value operational current / rated value operational current / rated value • 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 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 operating voltage at AC / rated value operating requency / rated value • minimum • maximum for other motor of rated value operation 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 A0 °C / rated value operational current / 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 design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating frequency / rated value • at AC-23 A / at ed value • at AC / rated value • at AC / rated value • minimum • maximum 50 Hz degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation power loss [W] / for rated value operational current / rated value operational current / rated value operational current / rated value 250 A operational current / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value operational current / at do °C / rated value	product designation	3LD Switch disconnector	
type of switch type of switch design of the actuating element color / of the actuating element black design of handle type of the driving mechanism / motor drive Foenart 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 1 at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value • at AC / rated value • minimum • at AC / rated value • minimum • maximum 50 Hz elegree of protection NEMA rating 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 / rated value 250 A operational current / rated value operational current / rated value 0 250 A operational current / rated value 0 250 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 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 50 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage resistance / rated value operating frequency / rated value • at AC / rated value • minimum 50 Hz • ob Hz • maximum 50 Hz Frotection class IP degree of protection NEMA rating protection class IP / on the front Dissipation 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 • operational current • at 40 °C / rated value • at 40 °C / rated value • operational current • at 40 °C / rated value • 250 A	type of switch	front mounted	
design of handle kpoep of the driving mechanism / motor drive No Ceneral technical data number of poles 4 size of switch disconnector 5 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) 6	design of the actuating element	selector switch	
type of the driving mechanism / motor drive General technical data	color / of the actuating element	black	
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 degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum 600 V 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 250 A operational current • at 40 °C / rated value • at 40 °C / rated value 250 A	design of handle	knob-operated mechanism, black	
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 degree of pollution 7 voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum output operating frequency / rated value operating frequency / rated value operating requency / rated value operation 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 / rated value operational current	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 operating frequency / maximum degree of pollution 70ttage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum operating frequency / rated value • minimum for Hz • maximum for 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 250 A operational current • at 40 °C / rated value 250 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 8 kV 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 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 100 Hz Protection class protection class IP 1P65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front 1P65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 250 A operational current / rated value 250 A operational current • at 40 °C / rated value 250 A	number of poles	4	
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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 so Hz operating frequency / rated value ominimum so Hz operating frequency / rated value ominimum for Hz operation class protection class IP degree of protection NEMA rating 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 / rated value operational current operational curren	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 ominimum ominimu	• at AC-23 A / at 690 V	6 000	
insulation voltage / rated value 690 V surge voltage resistance / rated value 8 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 250 A operational current • at 40 °C / rated value 250 A	operating frequency / maximum	50 1/h	
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at AC / rated value operating frequency / rated value iminimum	surge voltage resistance / rated value	8 kV	
operating frequency / rated value	operating voltage		
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 250 A 250 A 250 A	at AC / rated value	690 V	
● maximum Protection class protection class IP degree of protection NEMA rating 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 60 Hz IP65 A W A W A W A W A W A W A W A	operating frequency / rated value		
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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 250 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 36 W 250 A	Protection class		
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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 250 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 250 A	protection class IP / on the front	IP65	
hot operating state / per pole Current operational current / rated value operational current operational current operational current 250 A 250 A	Dissipation		
operational current / rated value 250 A operational current • at 40 °C / rated value 250 A		36 W	
operational current • at 40 °C / rated value 250 A	Current		
• at 40 °C / rated value 250 A	operational current / rated value	250 A	
	operational current		
• at 45 °C / rated value 250 A	 at 40 °C / rated value 	250 A	
	 at 45 °C / rated value 	250 A	

• at 50 °C / rated value	250 A
at 50 C / rated value at 55 °C / rated value	250 A 250 A
at AC / rated value at AC / rated value	250 A 250 A
Main circuit	25071
operational current	
at AC-21 / at 690 V / rated value	250 A
at AC-21 A / at 240 V / rated value	250 A
• at AC-21 A / at 400 V / rated value	250 A
at AC-21 A / at 440 V / rated value	250 A
• at AC-23 A / at 400 V / rated value	224 A
operating power	
at AC-23 A / at 240 V / rated value	75 kW
at AC-23 A / at 400 V / rated value	132 kW
at AC-23 A / at 440 V / rated value	132 kW
at AC-23 A / at 690 V / rated value	55 kW
at AC-3 / at 240 V / rated value	55 kW
at AC-3 / at 400 V / rated value	110 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 	No
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 / attachable / maximum	2
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	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	
 at 240 V / for combination switch + gG fuse / maximum 	15 kA
 at 440 V / for combination switch + gG fuse / maximum 	15 kA
 at 690 V / for combination switch + gG fuse / maximum permissible 	15 kA
I2t value / with closed switch	
 at 240 V / for combination switch + gG fuse / maximum 	557 kA2.s
 at 440 V / for combination switch + gG fuse / 	

maximum	
at 690 V / for combination switch + gG fuse /	557 kA2.s
maximum	337 KAZ.3
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 250 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	250 A
according UL	
operational current / at AC / according to UL 508/UL	250 A
operating voltage / at AC / at 50/60 Hz / according to UL	600 V
508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL	100
508/UL 60947-4-1 / rated value active power [hp] / at AC / at 600 V / according to UL	75
508/UL 60947-4-1 / rated value short-time withstand current (SCCR) / at 600 V / according	10 kA
to UL 508/UL 60947-4-1 continuous current / of upstream fuse / according to UL /	200 A
rated value	
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• minimum	1
• maximum	4/0
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16185mm²)
 finely stranded / with core end processing 	1x (16150mm²)
• stranded	1x (16185mm²)
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	5
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	169 mm
width	112 mm
depth	94 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
 4-hole front mounting 	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	2 611 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	Declaration of





Confirmation







Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous

Environmental Confirmations

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=3LD2405-1TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2405-1TL11

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

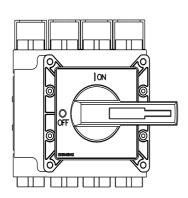
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2405-1TL11

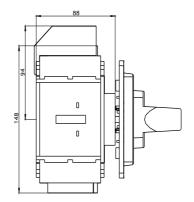
CAx-Online-Generator

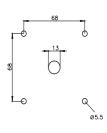
http://www.siemens.com/cax

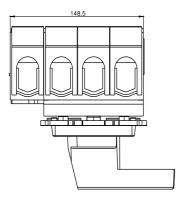
Tender specifications

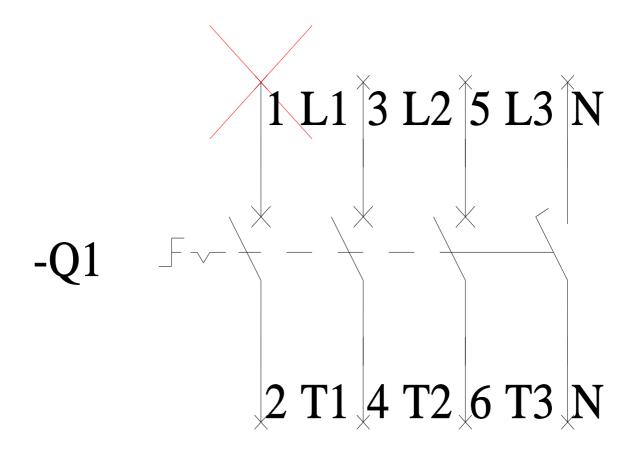
http://www.siemens.com/specifications











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