SIEMENS

Data sheet 3LD2405-3VK11

SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu=250 A, Operating power / at AC-23 A at 400 V: 132 kW, front-mounted, knoboperated 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 front mounted design of the actuating element color / of the actuating element design of handle knob-operated mechanism, black type of switch design of handle type of switch design of handle whole-operated mechanism, black type of 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) at AC-23 A / at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value operating voltage at AC / rated value operating frequency / rated value minimum outline minimum for Hz surge voltage resistance / rated value minimum for Hz protection class IP degree of protection NEMA rating protection class IP on the front prover loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current Operational current / rated value at 45 °C / rated value	Model		
design of the product display version / for switch position indicator manual operation lype of switch front mounted selector switch design 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) • 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 • minimum • maximum 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 Curront operational current / rated value • at 40 °C / rated value • operational current • at 40 °C / rated value • 250 A operational current • at 40 °C / rated value • 250 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 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) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating virtue of value maximum emaximum foo Hz Protection class IP of the front power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value	product designation	3LD Switch disconnector	
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) • at AC-23 A / at 690 V operating frequency / maximum for operating frequency / maximum surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum found • maximum found frequency / rated value • minimum • found • found • minimum • found • found • minimum • found • fo	design of the product	Main switch	
design of the actuating element black classing element black classing of handle type of the driving mechanism / motor drive No General technical data number of poles 6 size of switch disconnector 5 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / o at AC-23 A / at 690 V 6000 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 frequency / rated value 690 V operating frequency / rated value 600 Hz Protection class IP of the front 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 / at 40 °C / rated value 250 A	. ,	1 ON - 0 OFF	
color / of the actuating element design of handle 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 (swit	type of switch	front mounted	
design of handle type of the driving mechanism / motor drive Senoral 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 Surge voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum • maximum 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 operation clared value 250 A knob-operated mechanism, black No 6 No Rhob-operated mechanism, black No 6 00 6 00 00 00 00 00 00 00 00 00 00	design of the actuating element	selector switch	
type of the driving mechanism / motor drive General technical data number of poles 6 size of switch disconnector 5 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 8 kV operating frequency / material value 690 V surge voltage resistance / rated value 690 V operating frequency / material value 690 V operating voltage voltage resistance / rated value 690 V operating voltage resistance / 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 250 A	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 50 1/h degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum 60 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 • at 40 °C / rated value 250 A operational current • at 40 °C / rated value	design of handle	knob-operated mechanism, black	
number of poles size of switch disconnector 5 mechanical service life (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 surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz • maximum 50 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front possible of the current / at AC / in hot operating state / per pole Current • at 40 °C / rated value 250 A operational current / rated value at AC / rated value of the current / at AC / in hot operating state / per pole	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 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 operational current / rated value 250 A operational current • at 40 °C / rated value 250 A	General technical data		
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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 • 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 250 A operational current • at 40 °C / rated value 250 A	size of switch disconnector	5	
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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 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 50 Hz 690 V 690 V	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 omaximum omaximu	• at AC-23 A / at 690 V	6 000	
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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 • at 40 °C / rated value 690 V 690	insulation voltage / rated value	690 V	
at AC / rated value operating frequency / rated value inimimum 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 250 A	surge voltage resistance / rated value	8 kV	
operating frequency / rated value	operating voltage		
	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 250 A 	operating frequency / rated value		
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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	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 250 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 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 at 40 °C / rated value 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 at 55 °C / rated value at AC / rated value at AC / rated value 250 A Main circuit operational current at AC-21 / at 690 V / rated value 250 A 	
at AC / rated value 250 A Main circuit operational current at AC-21 / at 690 V / rated value 250 A	
Main circuit operational current • at AC-21 / at 690 V / rated value 250 A	
operational current • at AC-21 / at 690 V / rated value 250 A	
• 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	
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 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 / 15 kA maximum	
at 440 V / for combination switch + gG fuse / maximum 15 kA	
at 690 V / for combination switch + gG fuse / 15 kA maximum permissible	
I2t value / with closed switch	
• at 240 V / for combination switch + gG fuse / 557 kA2.s maximum	
• at 440 V / for combination switch + gG fuse / 557 kA2.s	

maximum	
• at 690 V / for combination switch + gG fuse /	557 kA2.s
maximum	
design of the fuse link	, I/O 050 A
 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 60947-4-1 / rated value	250 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	100
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	75
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	10 kA
continuous current / of upstream fuse / according to UL / rated value	200 A
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	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	169 mm
width	112 mm 94 mm
type of device	94 mm fixed mounting
type of device fastening method	Built-in unit fixed-mounted version
fastening method	Sailt iii dilit iixod iiiodiitod voi siori
4-hole front mounting	Yes
front mounting with central attachment	No
• rail mounting	No
net weight	3 925 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	25 °C
minimum maximum	-25 °C 55 °C
maximum General Product Approval	Declaration of
General Product Approval	Declaration of



Confirmation









Declaration of Conformity

Test Certificates

other



Special Test Certificate

Type Test Certificates/Test Report

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=3LD2405-3VK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2405-3VK11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2405-3VK11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









