SIEMENS

Data sheet 3LD2405-7UL01

SENTRON, Switch disconnector 3LD, change-over 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 type of switch design of the actuating element selector switch design 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 Ceneral technical data number of poles 4 size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (s	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 switch 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) • 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 50 Hz e maximum 50 Hz 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 • 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 black design of handle 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) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value • at AC / rated value • minimum • maximum Frotection class IP of 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	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 Genoral 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 foo 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / 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 [IV] / for rated value operating state / per pole Current • at 40 °C / rated value	design of the product	Selector switch
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design of handle knob-operated mechanism, black 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 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 / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating voltage of the foliation of the current / at AC / 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 50 Hz e maximum 50 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front pissipation 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 at 40 °C / rated value 250 A operational current • at 40 °C / rated value 250 A	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 7 7 7 7 8 8 7 8 8 8 8 8 8	type of the driving mechanism / motor drive	No
size of switch disconnector mechanical service life (switching cycles) / typical 100 000 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 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 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 250 A operational current • at 40 °C / rated value 250 A	General technical data	
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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 operating frequency / rated value ominimum omi	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 • minimum • maximum • 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 250 A	electrical endurance (switching cycles)	
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insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz • 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 690 V 8 kV 690 V 8 kV 690 V 190 V 190 Hz 1965 1965 1965 1965 1965 250 A	degree of pollution	3
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / 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 250 A	Voltage	
operating voltage	insulation voltage / rated value	690 V
 at AC / rated value operating frequency / rated value minimum maximum 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 at 40 °C / rated value 250 A 250 A 250 A	surge voltage resistance / rated value	8 kV
operating frequency / rated value	operating voltage	
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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
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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
at AC / rated value	250 A
Main circuit	20071
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 Applicate size of the size	45 kW
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts 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	1
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	1
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	5014
at 690 V / by gG fuse / rated value Int through oursent / with closed quiteb	50 kA
let-through current / with closed switch	15 kA
at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse /	
at 440 V / for combination switch + gG fuse / maximum	15 kA
at 690 V / for combination switch + gG fuse / maximum permissible	15 kA
12t value / with closed switch	557140
 at 240 V / for combination switch + gG fuse / maximum 	557 kA2.s
• at 440 V / for combination switch + gG fuse /	557 kA2.s

and a visit of the same	
maximum	FF7 kAQ a
 at 690 V / for combination switch + gG fuse / maximum 	557 kA2.s
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 /	fuse gL/gG: 10 A
required operational current / of upstream fuse / rated value	250 A
· · ·	250 A
according UL	250 A
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	149 mm
width	299 mm
depth	106 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 roll mounting	No No
• rail mounting	No 5 865 a
net weight Environmental conditions	5 865 g
ambient temperature / during operation	25 °C
minimum maximum	-25 °C 55 °C
ambient temperature / during storage	
minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of
Solicial i Todact Approval	Decial attori of





Confirmation







Declaration of Conformity

Test Certificates

other



Special Test Certificate

Type Test Certificates/Test Report

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=3LD2405-7UL01

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2405-7UL01

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2405-7UL01

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







