SIEMENS

Data sheet 3LD2318-7UK01



SENTRON, Switch disconnector 3LD, change-over switch, 3-pole, lu: 160 A, Operating power / at AC-23 A at 400 V: 75 kW, floor mounting with door coupling, 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 he 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) / 6 000 operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating frequency / rated value operating frequency / rated value • ninimum sold / rated • naximum 50 Hz • naximum 50 Hz • naximum 50 Hz • naximum 50 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 45 °C / 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 degree of pollution Surviva operating voltage • at AC / rated value • minimum • maximum • maximum • maximum foo Hz Protection class IP degree of protection NELMA 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 • operational current / rated value	product brand name	SENTRON	
display version / for switch position indicator manual operation type of switch	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) / typical electrical endurance (switching cycles) • at AC-23 A f a 690 V operating frequency / maximum degree of pollution 3 Voitage insulation voltage / rated value operating voltage • 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	design of the product	Selector switch	
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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	type of switch	Floor mounting with door coupling	
design of handle type of the driving mechanism / motor drive Rob-operated mechanism, black type of the driving mechanism / motor drive Robertal technical data 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 50 1/h degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value operating frequency / rated value • minimum 50 Hz • maximum 60 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation Dissipation Operating voltage at 40 °C / rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 160 A Operational current / rated value 160 A Operational current / rated value 160 A	design of the actuating element	selector switch	
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) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 70	color / of the actuating element	black	
Seneral technical data number of poles 3	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 for this degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum outling frequency / rated value operating frequency / rated value • minimum for the formaximum for the formating formation of the current / at AC / in hot operating state / per pole Current operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of the formation of the current / at AC / in hot operational current / rated value for the formation of	type of the driving mechanism / motor drive	No	
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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 operating frequency / rated value 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 curre	electrical endurance (switching cycles)		
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operating frequency / rated value • 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 160 A operational current • at 40 °C / rated value 160 A	operating voltage		
minimum maximum m	at AC / rated value	690 V	
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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 IP65 1P65 1P65 1P65 1P65	• maximum	60 Hz	
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 • at 40 °C / rated value 1, 3R, 4X, 12 1, 3R, 4X,	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 160 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 160 A	protection class IP / on the front	IP65	
hot operating state / per pole Current operational current / rated value operational current operational current operational current 160 A 160 A	Dissipation		
operational current / rated value operational current • at 40 °C / rated value 160 A		36 W	
operational current • at 40 °C / rated value 160 A	Current		
• at 40 °C / rated value 160 A	operational current / rated value	160 A	
	operational current		
• at 45 °C / rated value 160 A	 at 40 °C / rated value 	160 A	
	 at 45 °C / rated value 	160 A	

a at 50 °C / rated value	160 A
 at 50 °C / rated value at 55 °C / rated value 	160 A 160 A
at SS *C / rated value at AC / rated value	160 A
Main circuit	100 A
operational current	
at AC-21 / at 690 V / rated value	160 A
at AC-21 A / at 240 V / rated value	160 A
at AC-21 A / at 400 V / rated value	160 A
at AC-21 A / at 440 V / rated value	160 A
at AC-23 A / at 400 V / rated value	132 A
operating power	
• at AC-23 A / at 240 V / rated value	75 kW
at AC-23 A / at 400 V / rated value	75 kW
 at AC-23 A / at 440 V / rated value 	75 kW
 at AC-23 A / at 690 V / rated value 	45 kW
at AC-3 / at 240 V / rated value	35 kW
at AC-3 / at 400 V / rated value	50 kW
at AC-3 / at 690 V / rated value	37 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	Na
• motor drive	No
voltage trigger NC contacts / for quvillary contacts	No 2
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5
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	185 kA2.s
• at 440 V / for combination switch + gG fuse /	185 kA2.s

maximum	
• at 690 V / for combination switch + gG fuse /	185 kA2.s
maximum	
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 160 A
for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	160 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	180 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	75
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	50
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	224 mm
depth type of device	94 mm
type of device fastening method	fixed mounting Built-in unit fixed-mounted version
fastening method	Built in utilit incu-mounted version
4-hole front mounting	Yes
front mounting with central attachment	No
• rail mounting	No
net weight	5 156 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	27.00
• minimum	-25 °C
maximum Conoral Product Approval	55 °C
General Product Approval	Declaration 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=3LD2318-7UK01

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3LD2318-7UK01

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2318-7UK01

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











