SIEMENS

Data sheet 3LD2318-0TK11



SENTRON, switch disconnector 3LD, main switch, 3-pole, lu: 160 A, operating performance / at AC-23 A at 400 V: 75 kW, floor mounting with door coupling, knob-operated mechanism, black, 4-hole mounting of the handle,

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	Main switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	Floor mounting with door coupling
design of the actuating element	selector switch
color 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	3
size of switch disconnector	5
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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	
• 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	36 W
Main circuit	
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

operating prover at AC 23 A at 440 V rated value at AC 23 A at 440 V rated value at AC 23 A at 440 V rated value at AC 23 A at 440 V rated value at AC 23 A at 440 V rated value at AC 34 at 450 V rated value 55 kW at AC 34 24 A 54 50 V rated value 55 kW at AC 34 25 A 50 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 55 kW at AC 34 800 V rated value 50 v continuous current of the auxiliary contacts 0 operating votage of auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact rated value 50 v 50 v	-t AO 00 A -t 400 Vt- dlu-	400 A
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a at AC 23 A at 460 V raded value 75 kW 18 when the company of th		75 140
at AC-23 A at 440 V rated value 45 kW 45		
# at AC-3 at 300 V rated value		
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Insulation voltage of the auxiliary switch rated value Suitability for use main switch suitability for use switch disconnector suitability for use switch disconnector suitability for use safety switch Product details product deature can be locked into OFF position **Recessories** **Product details** product extension optional **motor drive **voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of bracket locks maximum 3 hasp thickness of the bracket locks maximum 3 hasp thickness of the bracket locks **Short circuit **conditional short-circuit current with line-side fuse protection **at 690 V by gG fuse rated value **at 690 V by G fuse rated value **at 690 V br combination switch + gG fuse maximum **at 690 V br combination swit	operating voltage of auxiliary contacts at AC maximum	500 V
Suitability for use main switch suitability for use switch disconnector suitability for use switch disconnector suitability for use safety switch suitability for use maintenance/repair switch Yes suitability for use maintenance/repair switch Yes product details product feature can be locked into OFF position ### Product details ### Product details ### Product extension optional ### omore drive ### owolage trigger ### No ### and of the warming ### and of the combination switch + gG fuse maximum ### and of the	continuous current of the auxiliary contact rated value	10 A
suitability for use main switch suitability for use switch disconnoctor suitability for use SMERCENCY OFF switch No suitability for use safety switch yes suitability for use safety switch Yes Product details product feature can be locked into OFF position **Cocssories** product stension optional • motor drive • voltage trigger No number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of the connectable NC contacts for auxiliary contacts attachable maximum number of the necket locks maximum anamer of bracket locks maximum 3 hasp thickness of the bracket locks Non Circuit Conditional short-circuit current with line-side fuse protection • at 690 V by G fuse rated value • at 690 V by G fuse rated value • at 690 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse fuse fuse fuse guige: • for short-circuit protection of the auxiliary to	insulation voltage of the auxiliary switch rated value	500 V
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suitability for use maintenance/repair switch Product details product extension optional emotor drive voltage trigger No number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of pracket locks maximum 3 nasp thickness of the bracket locks 4 6 mm Short circuit conditional short-circuit current with line-side fuse protection at 48 90 V by GG fuse rated value 50 kA let-through current with closed switch at 440 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at	suitability for use EMERGENCY OFF switch	No
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product feature can be locked into OFF position accessories Product extension optional • motor drive • voltage trigger No number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CC contacts for auxiliary contacts attachable maximum number of connectable CC contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum 3 hasp thickness of the bracket locks brotection • at 690 V by gG fuse rated value et at 400 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 maximum • at 440 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 440 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 440 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 450 V for combination switch + gG fuse maximum • at 450 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination switch + gG fuse maximum • at 650 V for combination	suitability for use maintenance/repair switch	Yes
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more of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum namber of bracket locks **Conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value **Evaluation of the bracket locks of the bracket locks **It was the state of the was the	accessories	
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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 waximum of at 460 V by gG fuse rated value set of the	voltage trigger	No
number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum shasp thickness of the bracket locks A 6 mm Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value shade of the combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 490 V for combination switch + gG fuse maximum • at 490 V for combination switch + gG fuse maximum • at 490 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 440 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 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse	number of connectable NC contacts for auxiliary contacts	3
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conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 16t-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 400 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 240 V for combination switch + gG fuse maximum permissible 12t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 240 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 • for short-circuit protection of the main circuit required • for short-circuit protection of the main circuit required • for short-circuit protection of the maximy switch required operational current of upstream fuse rated value according UL operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 kA 15 kA 15 kA 15 kA 15 kA 15 kA 15 kA 185 kA2.s 185 kA2.s 185 kA2.s 185 kA2.s 186 kA2.s 186 kA2.s 187 kA2.s 188 kA2.s 189 kA2.s 189 kA2.s 180 A	hasp thickness of the bracket locks	4 6 mm
protection • at 690 V by gG fuse rated value 15 kA 1240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible 15 kA • at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch • at 240 V for combination switch + gG fuse maximum permissible 12t value with closed switch • at 240 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 185 kA2.s • at 690 V for combination switch + gG fuse maximum 185 kA2.s design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required fuse gL/gG: 160 A 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 active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	Short circuit	
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at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch at 240 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 maximum be at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse gazes at 690 V for combination switch + gG fuse gazes at 690 V for combination switch + gG fuse gazes at 690 V for combination switch + gG fuse gazes at 690 V for combination switch + gG fuse gazes at 690 V for combinat		
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at 240 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 before short-circuit protection of the main circuit required before short-circuit protection of the auxiliary switch required before short-circuit protection of the main circuit required before short-circuit protection of the maximum before short-circuit protection of the maximum before short-circuit protection of the maximum before short-circuit protection of the auxiliary switch required before short-circuit protection of th	permissible	15 kA
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 185 kA2.s design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 50		
 at 690 V for combination switch + gG fuse 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 operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 50947-4-1 rated value 50 	· ·	
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for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 50 50		185 kA2.s
● for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 50	design of the fuse link	
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operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 60947-4-1 rated value		
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rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50 50	according UL	
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50		
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50	60947-4-1 rated value	600 V
60947-4-1 rated value		75
short-time withstand current (SCCR) at 600 V according to 10 kA	60947-4-1 rated value	50
	short-time withstand current (SCCR) at 600 V according to	10 kA

UL 508/UL 60947-4-1	
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 maximum	
•	1
•	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
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	2 750 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	

General Product Approval







Confirmation





other Environment

Confirmation **Miscellaneous Environmental Con-Environmental Con**firmations <u>firmations</u>

Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3LD2318-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2318-0TK11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2318-0TK11

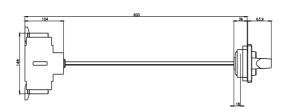
CAx-Online-Generator

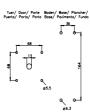
http://www.siemens.com/cax

Tender specifications

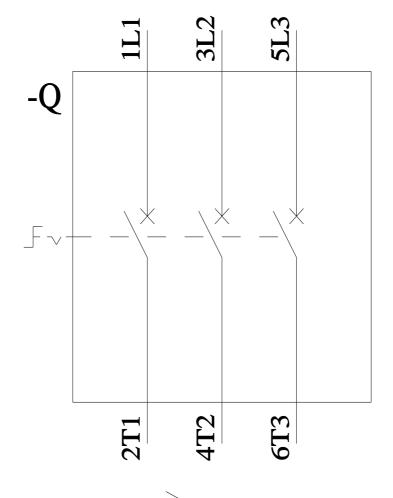
http://www.siemens.com/specifications

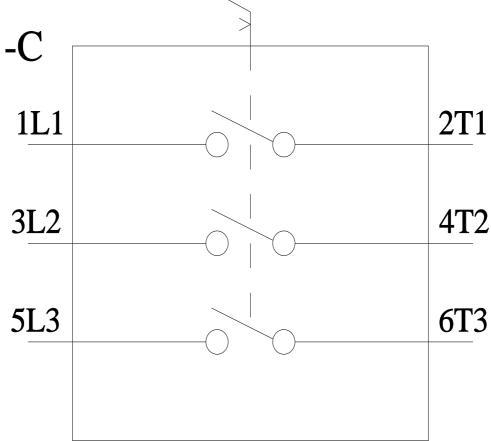












last modified: 6/20/2023 🖸