SIEMENS

Data sheet 3LD2766-0TB51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 100 A, Operating power / at AC-23 A at 400 V: 37 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, black

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	Molded-plastic enclosure for metric threaded joint	
design of the actuating element	Short rotary knob	
color of the actuating element	black	
design of handle	rotary operating mechanism, black	
type of the driving mechanism motor drive	No	
General technical data		
number of poles	3	
number of poles note	N + PE	
size of switch disconnector	4	
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	6 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, 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	7.5 W	
Main circuit		
operational current		
• at AC-21 at 690 V rated value	100 A	
• at AC-21 A at 240 V rated value	100 A	
• at AC-21 A at 400 V rated value	100 A	

at AC-21 And 4-00 V Intelot value by Coparating power at AC-22 And 4 00 V Intelot value at AC-23 And 5 00 V Intelot value attachable value attachable value attachable value attachable value attachable value attachable value and 5 00 V V y Intelot value attachable value and 5 00 V y y Intelot value attachable value and 5 00 V y y Intelot value attachable value and 6 00 V y y Intelot value attachable value and 6 00 V y y Intelot value attachable value and 6 00 V interordation value + Intelot value attachable value and 6 00 V interordation value + Intelot value attachable value and 6 00 V interordation value + Intelot value attachable value and 6 00 V interordation value + Intelot value attachable value and 6 00 V interordation value + Intelot value attachable value attachable va		100 1
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and AC-23 A at 240 V retad value at AC-23 A at 440 V retad value at AC-23 At 440 V retad value at AC-23 At 450 V retad value at AC-23 At 450 V retad value at AC-23 At 450 V retad value at AC-3 at 450 V retad value at 460 V retad v		/0 A
e at AC-23 A at 400 V rated value 37 kW 40		
e at AC-23 A at 440 V rated value at AC-23 A at 260 V rated value at AC-30 at 600 V rated value at AC-30 at 600 V rated value 22 kW Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 continuous current of the auxiliary contacts 0 continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at activities of the auxiliary contact at activities at activities and activities at activities	 at AC-23 A at 240 V rated value 	18.5 kW
e id AC-3 at 48 60 V vrated value		
e at AC-3 at 240 V rated value	 at AC-23 A at 440 V rated value 	37 kW
* at AC-3 at 400 V rated value 22 kW Auxiliary circuit number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 operating vottage of auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact at AC maximum 500 V solve the contacts of auxiliary contact at AC maximum 500 V continuous current of the auxiliary contact rated value 10 A insulation votage of the auxiliary contact rated value 500 V suitability for use main switch 7 yes suitability for use main switch 7 yes suitability for use EMERGENCY OFF ewitch 80 suitability for use switch disconnector 7 yes suitability for use safety switch 7 yes suitability for use safety 8 yes suitability for use for safety 8 yes suitability for use for safety 8 yes suitability for use safety 8 yes suitability for use for safety 8 yes suitability for use for safety 8 yes suitability 8	 at AC-23 A at 690 V rated value 	30 kW
Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 quering voltage of auxiliary contacts at AC maximum 500 V continuous current of the auxiliary contact and Version suitability for use main switch Yes suitability for use switch disconnector Yes suitability for use main switch Yes suitability for use switch disconnector Yes suitability for use main switch Yes suitability for use main switch Yes suitability for use main switch Yes suitability for use switch switch No No 100	• at AC-3 at 240 V rated value	18.5 kW
Auxiliary circuit number of CC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 poerating voltage of auxiliary contacts at AC maximum 500 V continuous current of the auxiliary contact at advalue insulation voltage of the auxiliary contact at advalue suitability for use main switch suitability for use witch disconnector Yes suitability for use witch disconnector Yes suitability for use main exitich Ves Product details Product details **Record details** **Record details** **Record details** **Record details** **Product details** **No **Product details** **No **Incomplication optional** **mumber of connectable NC contacts for auxiliary contacts **attachable maximum** **mumber of bronectable NC contacts for auxiliary contacts **attachable maximum** **unmaber of connectable NC contacts for auxiliary contacts **attachable maximum** **attachable maximum** **attachable 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 f	 at AC-3 at 400 V rated value 	30 kW
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Suitability for use switch disconnector yes suitability for use SMERGENCY OFF switch No suitability for use SMERGENCY OFF switch No suitability for use safety switch Yes suitability for use maintenance/repair switch Yes suitability for use maintenance/repair switch Yes suitability for use maintenance/repair switch Yes product details product feature can be locked into OFF position Recessories product feature can be locked into OFF position Recessories product extension optional Indicate an entire of the second o	continuous current of the auxiliary contact rated value	10 A
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motor drive voltage trigger No		
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Conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value • at 240 V for combination switch + gG fuse maximum • at 490 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 permissible Izt value with closed switch • at 240 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 • at 890 V for combination switch + gG fuse maximum • at 890 V for combination switch + gG fuse maximum • fuse gU/gG: 100 A • 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 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	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum permissible l2t 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 440 V for combination switch + gG fuse maximum • at 480 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 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 600 V 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL 75	hasp thickness of the bracket locks	4 8 mm
protection • at 690 V by gG fuse rated value let-through current with closed switch • 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 permissible l2t 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 • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • 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 600 V according to UL 508/UL 50947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 50947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 50947-4-1 rated value	Short circuit	
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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 permissible I2t 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 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 be 4 kA2.s at 690 V for combination switch + gG fuse maximum be 4 kA2.s design of the fuse link at 67 short-circuit protection of the main circuit required after a fuse gL/gG: 100 A be for short-circuit protection of the auxiliary switch required be 60 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 active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	at 690 V by gG fuse rated value	50 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible I2t 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 64 kA2.s 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 be	let-through current with closed switch	
at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch	• at 240 V for combination switch + gG fuse maximum	10 kA
Izt value with closed switch	• at 440 V for combination switch + gG fuse maximum	10 kA
 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 64 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 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 606 606 607 607 608 608 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 609/47-4-1 rated value 		10 kA
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at 690 V for combination switch + gG fuse maximum 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: 100 A 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 600 600 600 600 600 600 600 6	• at 240 V for combination switch + gG fuse maximum	64 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 75	• at 440 V for combination switch + gG fuse maximum	64 kA2.s
• for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • 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 600 V 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 600 for short-circuit protection of the main circuit required fuse gL/gG: 100 A fuse gL/gG: 100 A 100 A 600 A 600 V 600 V 600 V 600 V 600 V 600 V 600 For short-circuit protection of the main circuit required fuse gL/gG: 100 A 600 A 600 V 600 V 600 V 600 V 600 V 600 V 600 For short-circuit protection of the auxiliary switch required fuse gL/gG: 100 A 600 A 600 V 600 V	• at 690 V for combination switch + gG fuse maximum	64 kA2.s
	design of the fuse link	
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 75	• for short-circuit protection of the main circuit required	fuse gL/gG: 100 A
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 75	• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
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 75	operational current of upstream fuse rated value	100 A
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 75	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 75		100 A
active power [hp] at AC at 600 V according to UL 508/UL 75		600 V
		60

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 maximum	
•	1
•	12
type of connectable conductor cross-sections for copper conductor	
• solid	1x (450mm²)
 finely stranded with core end processing 	1x (435mm²)
stranded	1x (450mm²)
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	302 mm
width	212 mm
depth	181 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	Yes
rail mounting	No
net weight	1 886 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



General Product Approval Test Certificates Marine / Shipping other



Miscellaneous



Miscellaneous



Confirmation

other Environment

Miscellaneous Environmental Con-

Information on the packaging

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=3LD2766-0TB51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2766-0TB51

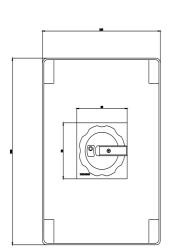
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2766-0TB51

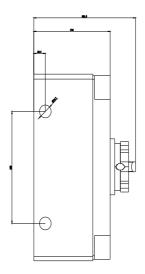
CAx-Online-Generator

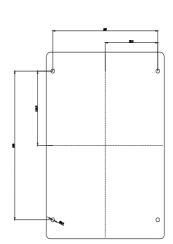
http://www.siemens.com/cax

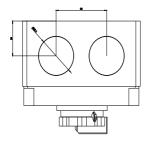
Tender specifications

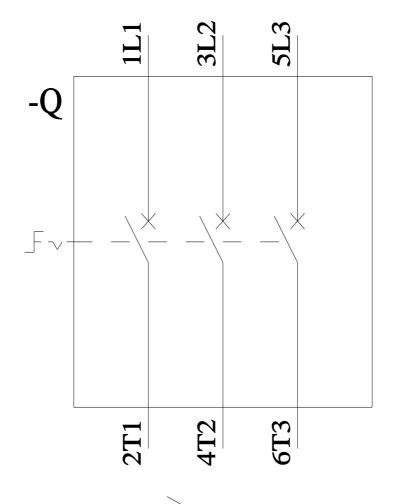
http://www.siemens.com/specifications

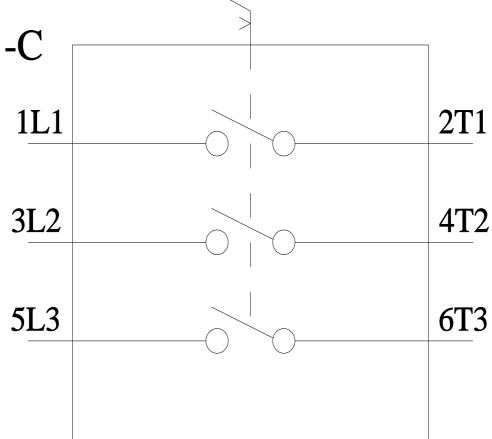












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