SIEMENS

Data sheet

3LD2244-1TL51



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, floor mounting with door coupling, rotary operating mechanism, black, central mounting 22.5 mm 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	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	4			
size of switch disconnector	2			
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, 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	1.8 W			
Main circuit				
operational current				
• at AC-21 at 690 V rated value	32 A			
• at AC-21 A at 240 V rated value	32 A			
• at AC-21 A at 400 V rated value	32 A			
• at AC-21 A at 440 V rated value	32 A			

• exh 2 A • exh 2 A • exh 2 A al 240 V relativation • exh 2 A al 200 V relativation • continuous current of the auxillary contact read value 20 A • relativatifity for use anixetich discometer Ves • auxillability for use anixetich discometer Ves • auxillability for use anixetich discometer Ves • relativatifity for use anixe	a at AC 22 A at 400 V rated value	22 A
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••• #1A-C33 A # 440 Y rated value15. KW••• #1A-C3 at 240 Y rated value55. KW••• #1A-C3 at 240 Y rated value55. KW••• #1A-C3 at 240 V rated value10. KW••• #1A-C3 at 240 V rated value10. KW••• #1A-C3 at 240 V rated value10. KW••• #1A-C3 at 260 V rated value0••• #1A-C3 at 560 V rated value0••• #1A-C3 at 500 V rated value00 V••• #1A-C3 at 500 V rated value500 V••• #1A-C3 at 500 V rated valueVes••• #1A-C3 at 500 V rated valueVes••• #1A-C3 at 500 V rated valueNo••• #1A-C3 At 500 V rated value0••• #1A-C3 At 500 V rated value0 <t< td=""><td></td><td></td></t<>		
• e1 AC-23 A : e169 V rated value 52 NV • e1 AC-3 at 240 V rated value 55 NV • e1 AC-3 at 240 V rated value 95 NV • e1 AC-3 at 260 V rated value 95 NV • e1 AC-3 at 260 V rated value 95 NV • Antitary creat value 0 • number of Contacts for auxiliary contacts 0 • or otacts of rauxiliary contacts 0 • or otacts of rauxiliary contacts at AC maximum 500 V • or otacts of rauxiliary contact at AC maximum 500 V • or otacts of rauxiliary contact at AC maximum 500 V • or otage of auxiliary contact at AC maximum 500 V • statistististy Yes • or otage of auxiliary contact at AC maximum 500 V • or otage of auxiliary contact at AC maximum 500 V • or otage of auxiliary contact at AC maximum Yes • or otage of the auxiliary contact Yes • or otage of auxiliary contact Yes • or otage of the gamin switch Yes • or otage of the auxiliary contact Yes • or otage of the auxiliary contact <td< td=""><td></td><td></td></td<>		
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hasp thickness of the bracket locks 4 8 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 50 kA • at 240 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 420 V for combination switch + gG fuse maximum 5 kA • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A • operational current of upstream fuse rated value 40 A	•	0
Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 50 kA • et 690 V by gG fuse rated value 50 kA • et 690 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 4.5 kA • at 690 V for combination switch + gG fuse maximum 5 kA • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current at AC according to UL 508/UL 60947-4-1 32 A rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 20 60947-4-1 rated value 20 60947-4-1 rated value 20	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection 50 kA iet-through current with closed switch 50 kA iet-through current with closed switch 4.5 kA • at 240 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 690 V for combination switch + gG fuse maximum 5 kA • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current of upstream fuse rated value 40 A according UL 32 A operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947.4-1 rate	•	4 8 mm
protectionSo was an analysis• at 690 V by gG fuse rated value50 kAlet-through current with closed switch50 kA• at 240 V for combination switch + gG fuse maximum4.5 kA• at 640 V for combination switch + gG fuse maximum4.5 kA• at 640 V for combination switch + gG fuse maximum5 kApermissible5 kA12t value with closed switch5 kA• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 640 V for combination switch + gG fuse maximum9 kA2.s• at 640 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• for short-circuit protection of the main circuit requiredfuse gL/gG: 40 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• operational current of upstream fuse rated value40 A2020extive power (hp] at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value20active power (hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value20active power (hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value20	Short circuit	
let-through current with closed switch 4.5 kA • at 240 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 690 V for combination switch + gG fuse maximum 5 kA • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s design of the fuse link 6 fuse fuse maximum • for short-circuit protection of the main circuit required fuse gL/gG: 40 A • 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 32 A according UL 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60047-4-1 20 active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 20 active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 20		
• at 240 V for combination switch + gG fuse maximum4.5 kA• at 440 V for combination switch + gG fuse maximum permissible5 kA• at 690 V for combination switch + gG fuse maximum permissible5 kA• 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 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 • kA2.s9 kA2.s• 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 • fuse gL/gG: 10 A32 Aoperational current at AC according to UL 508/UL • 60947-4-1 rated value600 V600 Vcording UL • 60947-4-1 rated value20active power [hp] at AC at 480 V according to UL 508/UL • 60947-4-1 rated value20	• at 690 V by gG fuse rated value	50 kA
• at 440 V for combination switch + gG fuse maximum4.5 kA• at 690 V for combination switch + gG fuse maximum permissible5 kA/2t value with closed switch9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.sdesign of the fuse linkfuse gL/gG: 40 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• operational current of upstream fuse rated value40 Aaccording ULoperational current at AC according to UL 508/UL 60947-4-1 rated value32 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value20active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value20	let-through current with closed switch	
• at 690 V for combination switch + gG fuse maximum permissible5 kAI2t value with closed switch9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• design of the fuse link10 km sequence• for short-circuit protection of the main circuit requiredfuse gL/gG: 40 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• operational current of upstream fuse rated value40 Aaccording UL0operational current at AC according to UL 508/UL 60947-4-1 rated value600 V• operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value20active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value20	• at 240 V for combination switch + gG fuse maximum	4.5 kA
permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s • at 690 V for combination switch + gG fuse maximum 9 kA2.s design of the fuse link 1000000000000000000000000000000000000	 at 440 V for combination switch + gG fuse maximum 	4.5 kA
 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination switch + gG fuse maximum bat 690 V for combination of the auxiliary switch required bat 690 V for short-circuit protection of the auxiliary switch required bat 690 V for combination current of upstream fuse rated value bat 690 V for combination current at AC according to UL 508/UL 60947-4-1 bat 690 V bat 69947-4-1 rated value bat 690 V bat 69947-4-1 rated value bat 69947-4-1 rated value bat 69947-4-1 rated value bat 69947-4-1 rated value bat 690 V according to UL 508/UL 60947-4-1 bat 69947-4-1 rated value bat 69947-4-1 rated value bat 69947-4-1 rated value 		5 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 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 for short-cir	I2t value with closed switch	
• at 690 V for combination switch + gG fuse maximum9 kA2.sdesign of the fuse linkIsse gL/gG: 40 A• for short-circuit protection of the main circuit requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch required40 Aaccording UL40 Aoperational current of upstream fuse rated value32 Aoperational current at AC according to UL 508/UL 60947-4-1 rated value32 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value20active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value20	 at 240 V for combination switch + gG fuse maximum 	9 kA2.s
design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A • for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value 40 A according UL operational current at AC according to UL 508/UL 60947-4-1 operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947-4-1 rated value 20 active power [hp] at AC at 480 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20	 at 440 V for combination switch + gG fuse maximum 	9 kA2.s
 for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required fuse gL/gG: 40 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value 40 A according UL operational current at AC according to UL 508/UL 60947-4-1 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 20 	• at 690 V for combination switch + gG fuse maximum	9 kA2.s
• for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value 40 A according UL 40 A operational current at AC according to UL 508/UL 60947-4-1 rated value 32 A operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 frated value 600 V active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20	design of the fuse link	
operational current of upstream fuse rated value 40 A according UL 0 operational current at AC according to UL 508/UL 60947-4-1 32 A rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 600 V active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20	 for short-circuit protection of the main circuit required 	fuse gL/gG: 40 A
according UL operational current at AC according to UL 508/UL 60947-4-1 32 A rated value 600 V 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V active power [hp] at AC at 480 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20	 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 32 A rated value 32 A operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947-4-1 rated value 600 V active power [hp] at AC at 480 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20	operational current of upstream fuse rated value	40 A
rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947-4-1 rated value 20 active power [hp] at AC at 480 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20 active power [hp] at AC at 600 V according to UL 508/UL 20	according UL	
60947-4-1 rated value 20 active power [hp] at AC at 480 V according to UL 508/UL 20 60947-4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 20 60947-4-1 rated value 20		32 A
60947-4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 20 60947-4-1 rated value 20		600 V
60947-4-1 rated value		20
short-time withstand current (SCCR) at 600 V according to 5 kA		20
		5 kA

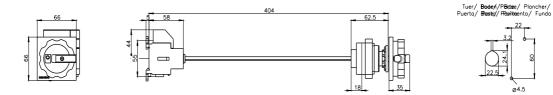
UL 508/UL 60947-4-1	-				
continuous current of upstream fuse according to UL rated	80 A				
value					
type of fuse according to UL	RK5				
Connections AWG number as coded connectable conductor cross					
section solid maximum					
•	8				
•	14	14			
type of connectable conductor cross-sections for copper conductor					
• solid	1x (1,516mm²)				
 finely stranded with core end processing 	1x (1,510mm ²)				
• stranded	1x (1,516mm²)				
type of connectable conductor cross-sections for auxiliary contacts					
• solid	lateral auxiliary switch 2x (0,75 (0,75 2,5mm²)	5 2,5mm²), 1x 4mm²; fr	ont auxiliary switch 1x		
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 2,5mm ²	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x			
• stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)				
type of electrical connection					
for main current circuit	box terminal				
for auxiliary contacts	connection terminals				
Mechanical Design					
height	84 mm				
width depth	67 mm				
type of device	451.5 mm fixed mounting				
fastening method	Built-in unit fixed-mounted version				
fastening method					
• 4-hole front mounting	No				
 front mounting with central attachment 	Yes				
 rail mounting 	Yes				
net weight	455 g				
Environmental conditions					
ambient temperature during operation					
• minimum	-25 °C				
maximum	55 °C				
 ambient temperature during storage minimum 	25.00				
• maximum	-25 °C 55 °C				
Approvals Certificates	33 0				
General Product Approval					
General Froduct Approval					
			Miscellaneous		
	t (VL)	(D'E)			
CCC EG-Konf.		VDE			
General Product Ap- Marine / Shipping	other		Environment		
proval					
	Miscellaneous	Confirmation	Environmental Con-		
- Hoyds Register			firmations		
LNG PRS					
Environment					
Environmental Con-					

Further information

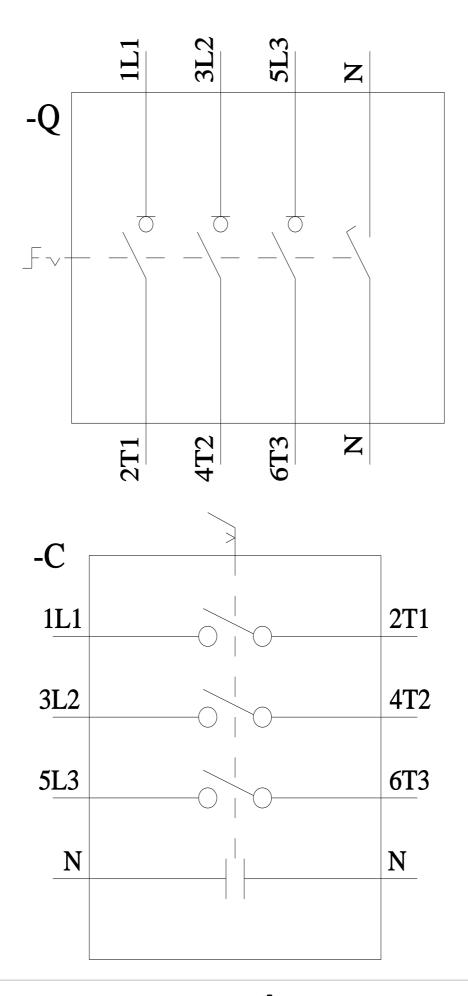
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2244-1TL51 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2244-1TL51 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2244-1TL51 CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

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