SIEMENS

Data sheet 3LD2566-4VD51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, molded-plastic encapsulation for metric screw connection, 1 NC, 1 NO, 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	6
number of poles note	PE + N
size of switch disconnector	3
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	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
 at AC-21 A at 400 V rated value 	63 A

A IAC-21 A at 440 V Inteled value		
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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 240 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 permissible Izt value with closed switch • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 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 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 active power [hp] at AC at 600 V according to UL 508/UL 50	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 10through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 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 21 kA2.s • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 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 active power [hp] at AC at 600 V according to UL 508/UL 50	·	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 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible let 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 at 440 V for combination switch + gG fuse maximum at 6 kA at 440 V for combination switch + gG fuse maximum at 1 kA2.s at 690 V for combination switch + gG fuse maximum at 6 kA at 440 V for combination switch + gG fuse maximum at 1 kA2.s design of the fuse link a for short-circuit protection of the main circuit required a fuse gL/gG: 63 A fuse gL/gG: 10 A operational current of upstream fuse rated value at two power [hp] 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 50	Short circuit	
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 • 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 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum 21 kA2.s • 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 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		
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	···	50 kA
at 440 V for combination switch + gG fuse maximum barmissible Izt value with closed switch at 240 V for combination switch + gG fuse maximum bermissible Izt value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V fo	let-through current with closed switch	
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 690 V for c	• at 240 V for combination switch + gG fuse maximum	6 kA
Izt value with closed switch	• at 440 V for combination switch + gG fuse maximum	6 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 21 kA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 63 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 63 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 508/UL 50 600 V 6		6 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 21 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 63 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 600 V 600 V 600 V 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 500 		
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 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 active power [hp] at AC at 600 V according to UL 508/UL 500	• at 240 V for combination switch + gG fuse maximum	21 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-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 50	• at 440 V for combination switch + gG fuse maximum	21 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 • for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value 63 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 600 V 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 50	• at 690 V for combination switch + gG fuse maximum	21 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 600 V 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 508/UL 50	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 50	• for short-circuit protection of the main circuit required	fuse gL/gG: 63 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 50	 for short-circuit protection of the auxiliary switch required 	fuse at /aG: 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 50		1400 g=1g=1 1071
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 50	operational current of upstream fuse 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 50		
active power [hp] at AC at 600 V according to UL 508/UL 50	according UL operational current at AC according to UL 508/UL 60947-4-1	63 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	63 A 63 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	63 A 63 A 600 V

short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA	
continuous current of upstream fuse according to UL rated value	175 A	
type of fuse according to UL	RK5	
Connections		
AWG number as coded connectable conductor cross section solid maximum		
•	6	
•	14	
type of connectable conductor cross-sections for copper conductor		
• solid	1x (2,535mm²)	
 finely stranded with core end processing 	1x (2.516 mm²)	
• stranded	1x (2,535mm²)	
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	2 164 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













General Product Approval Test Certificates

Marine / Shipping

other

Miscellaneous



Miscellaneous



Miscellaneous

Confirmation

Environment

Environmental Con-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=3LD2566-4VD51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2566-4VD51

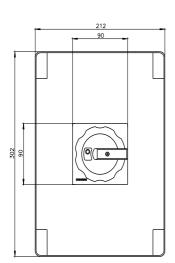
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2566-4VD51

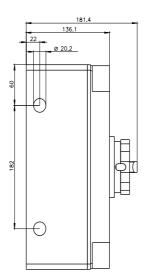
CAx-Online-Generator

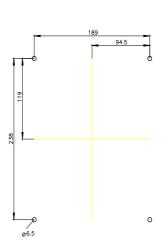
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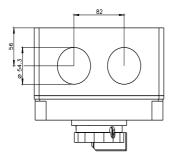
Tender specifications

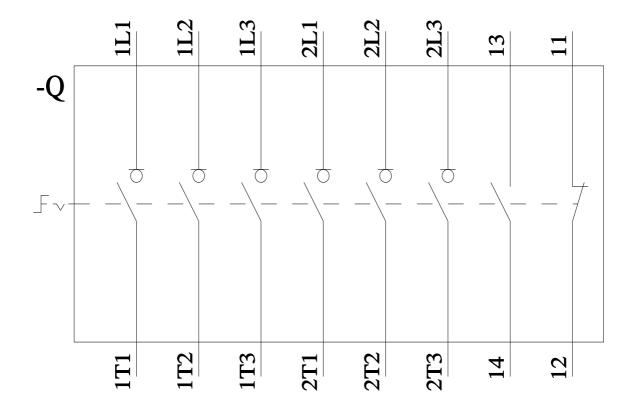
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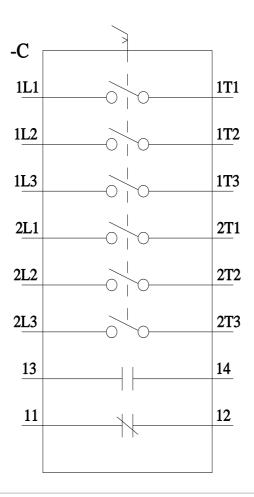












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