SIEMENS

Data sheet

3LD2064-0TB51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, black

product brand name SENTRON product designation Switch disconnector design of the product Main switch		
design of the product Main switch		
design of the product		
display version for switch position indicator manual operation 1 ON - 0 OFF		
type of switch Molded-plastic enclosure for metric three	readed 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 1		
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 0.5 W operating state per pole		
Main circuit		
operational current		
• at AC-21 at 690 V rated value 16 A		
• at AC-21 A at 240 V rated value 16 A		
• at AC-21 A at 400 V rated value 16 A		
• at AC-21 A at 440 V rated value 16 A		

• at AC-23 A at 400 V rated value	16 A
operating power	
at AC-23 A at 240 V rated value	4 kW
• at AC-23 A at 400 V rated value	8 kW
at AC-23 A at 440 V rated value	7.5 kW
at AC-23 A at 690 V rated value	8 kW
• at AC-3 at 240 V rated value	3 kW
	6 kW
 at AC-3 at 400 V rated value at AC-3 at 690 V rated value 	
• at AC-3 at 690 V fated value Auxiliary circuit	5.5 kW
	0
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	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts	3
attachable maximum	
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 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	
• at 240 V for combination switch + gG fuse maximum	3 kA
 at 440 V for combination switch + gG fuse maximum 	3 kA
 at 690 V for combination switch + gG fuse maximum 	3 kA
permissible	
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	2.5 kA2.s
 at 440 V for combination switch + gG fuse maximum 	2.5 kA2.s
 at 690 V for combination switch + gG fuse maximum 	3 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit required 	fuse gL/gG: 20 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	20 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	16 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	7.5
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	10
short-time withstand current (SCCR) at 600 V according to UL	5 kA

508/UL 60947-4-1		
continuous current of upstream fuse according to UL rated value	50 A	
type of fuse according to UL	RK5	
Connections		
AWG number as coded connectable conductor cross section solid maximum		
•	10	
•	18	
type of connectable conductor cross-sections for copper conductor		
• solid	1x (16mm²)	
 finely stranded with core end processing 	1x (14mm²)	
stranded	1x (16mm²)	
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	152 mm	
width	100 mm	
depth	117 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	464 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		
CCC CSA CE	UK Confirmation	
General Product Approval	Test Certificates Marine / Shipping other	
	Miscellaneous Confirmation	
other Environment		
Miscellaneous Environmental Con- Environmental firmations firmations		

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=3LD2064-0TB51

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

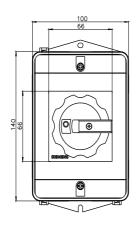
https://support.industry.siemens.com/cs/ww/en/ps/3LD2064-0TB51

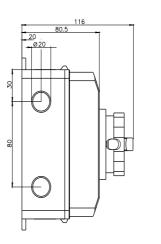
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2064-0TB51

CAx-Online-Generator http://www.siemens.com/cax

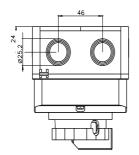
Tender specifications http://www.siemens.com/specifications

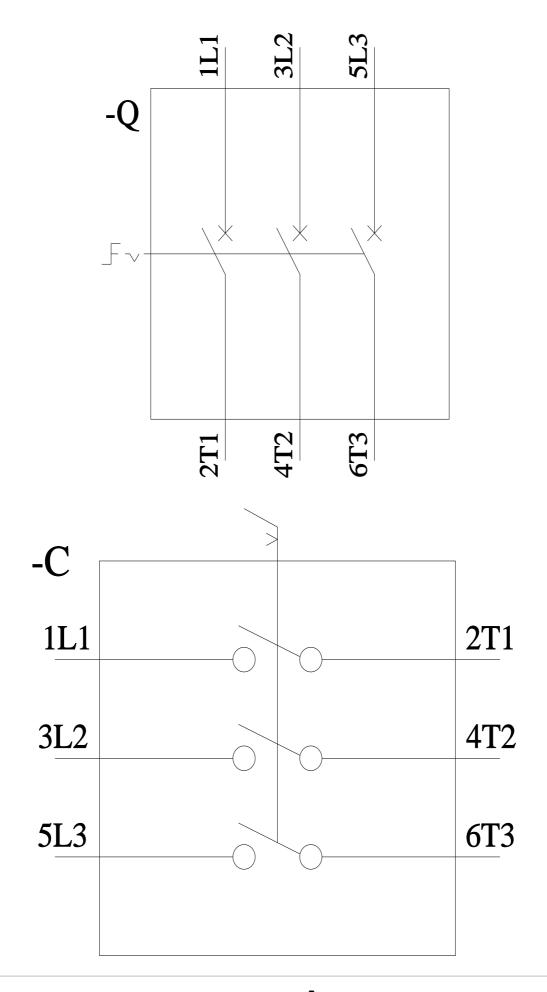




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