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Data sheet 3LD2064-1TC51



SENTRON, switch disconnector 3LD, main switch, 4-pole, 16 A, operating power at AC-23 A at 400 V: 7.5 kW, molded-plastic enclosure 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	4
number of poles note	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 operating state per pole	0.33 W
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

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● 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
● at AC-3 at 400 V rated value	6 kW
● at AC-3 at 690 V rated value	5.5 kW
Auxiliary circuit	
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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use 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 attachable maximum	3
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 permissible	3 kA
I2t value with closed switch	
● at 240 V for combination switch + gG fuse maximum	2.5 $kA^2 \cdot s$
● at 440 V for combination switch + gG fuse maximum	2.5 $kA^2 \cdot s$
● at 690 V for combination switch + gG fuse maximum	3 $kA^2 \cdot s$
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

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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 508/UL 60947-4-1	5 kA
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 (1...6mm²)
• finely stranded with core end processing	1x (1...4mm²)
• stranded	1x (1..6mm²)
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	415 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

Environment		General Product Approval			
Environmental Con-firmations	Environmental Con-firmations	EPD	CCC	CSA	cULus

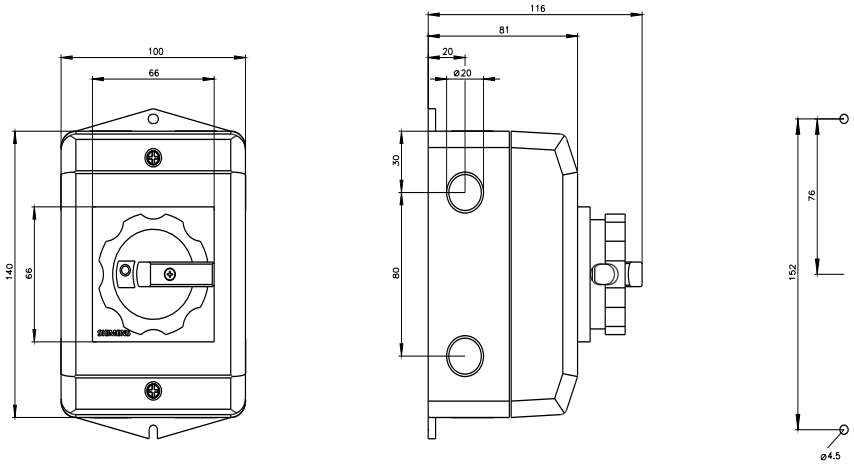
General Product Approval					
VDE	Miscellaneous	EAC	Confirmation	CE EG-Konf.	UKCA

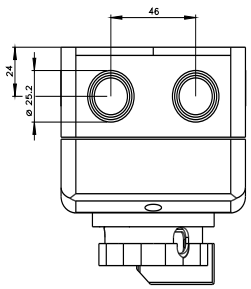
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Test Certificates		Maritime application	other	
Miscellaneous	Type Test Certific-ates/Test Report		Confirmation	

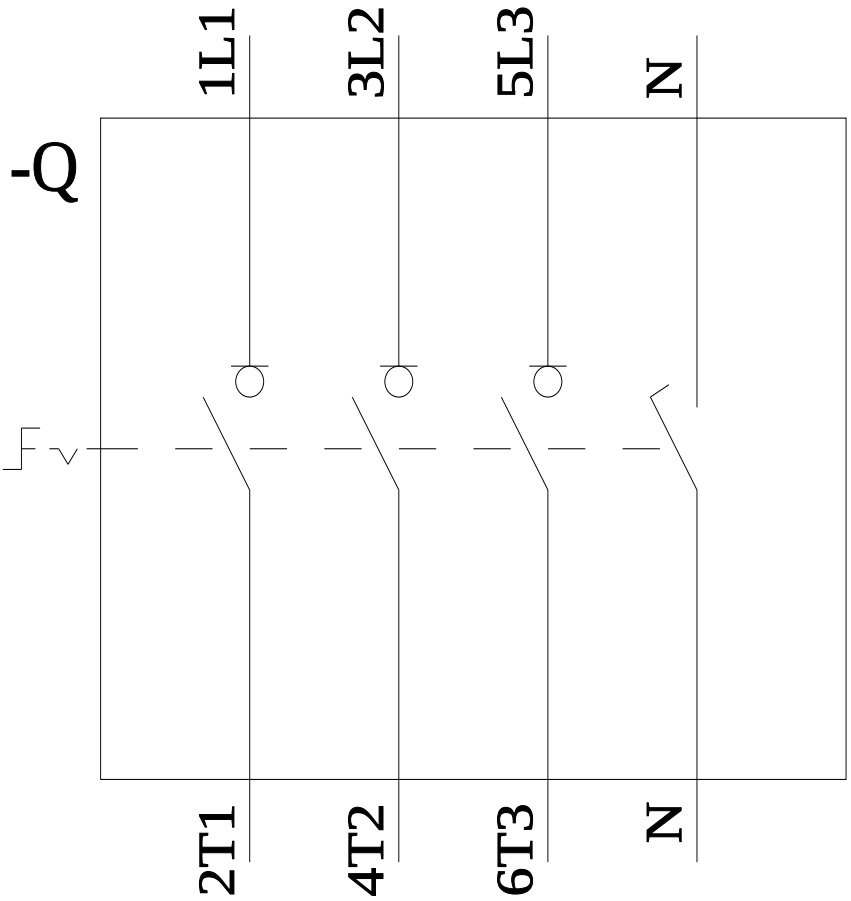
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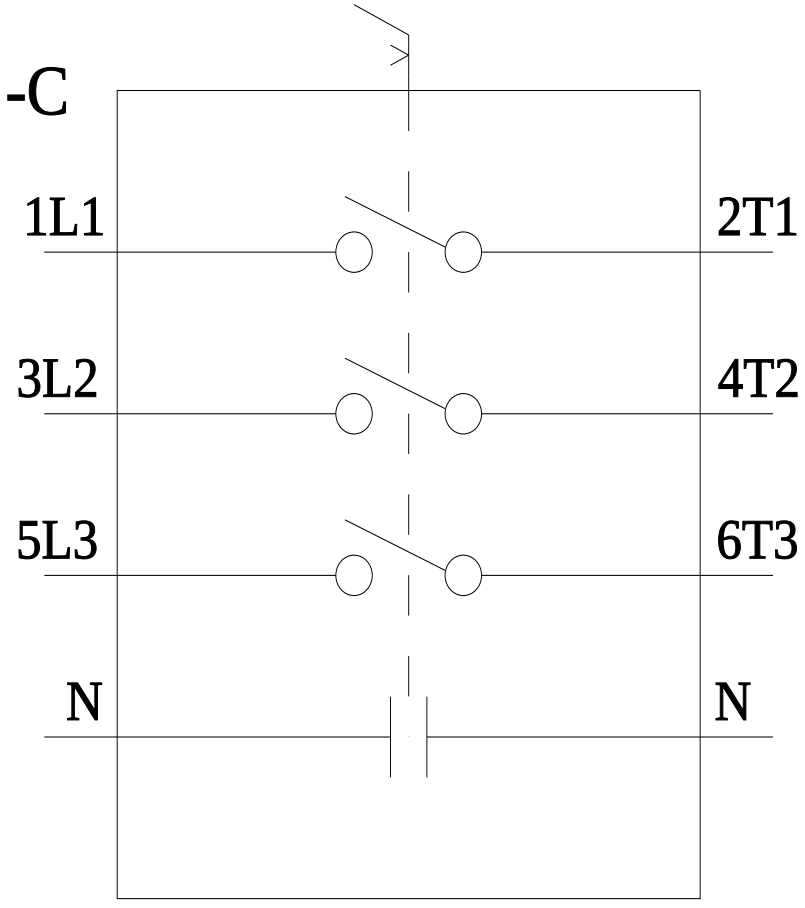
Information on the packaging
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Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3LD2064-1TC51
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2064-1TC51
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