SIEMENS

Data sheet 3LD2555-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, front-mounted, 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	front mounted	
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	
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, 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	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	
• at AC-21 A at 440 V rated value	63 A	

a at AC 22 A at 400 V rated value	42 A
at AC-23 A at 400 V rated value	43 A
operating power	44 140
• at AC-23 A at 240 V rated value	11 kW
• at AC-23 A at 400 V rated value	22 kW
at AC-23 A at 440 V rated value	22 kW
• at AC-23 A at 690 V rated value	19 kW
• at AC-3 at 240 V rated value	11 kW
at AC-3 at 400 V rated value	19 kW
at AC-3 at 690 V rated value	15 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 safety switch	Yes
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	2
number of connectable NO contacts for auxiliary contacts attachable maximum	2
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 	6 kA
 at 440 V for combination switch + gG fuse maximum 	6 kA
 at 690 V for combination switch + gG fuse maximum permissible 	6 kA
I2t value with closed switch	
• at 240 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	fuse gL/gG: 63 A
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	63 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	40
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	50
short-time withstand current (SCCR) at 600 V according to	5 kA

UL 508/UL 60947-4-1		
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	2x (0.75 2.5 mm²), 1x 4 mm²	
 finely stranded with core end processing 	2x (0.75 1.5 mm²), 1x 2.5 mm²	
• stranded	2x (0.75 2.5 mm²), 1x 4 mm²	
type of electrical connection		
for main current circuit	box terminal	
for auxiliary contacts	connection terminals	
Mechanical Design		
height	107 mm	
width	90 mm	
depth	132.5 mm	
type of device	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	No	
net weight	427 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		
Consuel Breduct Annuaval		

General Product Approval







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Confirmation

Miscellaneous

Environment

Environmental Confirmations Environmental Confirmations

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2555-0TK51}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2555-0TK51

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

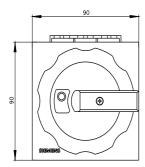
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2555-0TK51

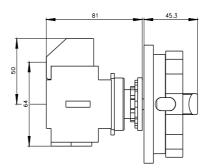
CAx-Online-Generator

http://www.siemens.com/cax

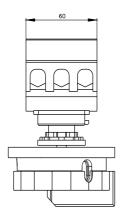
Tender specifications

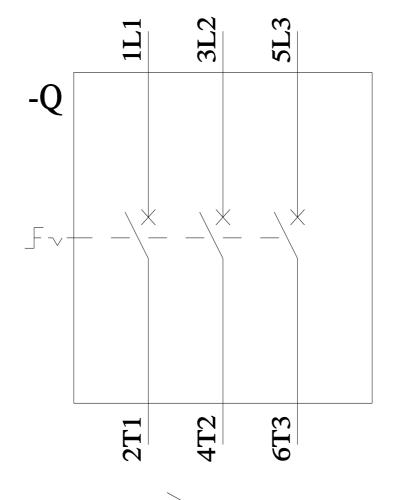
http://www.siemens.com/specifications

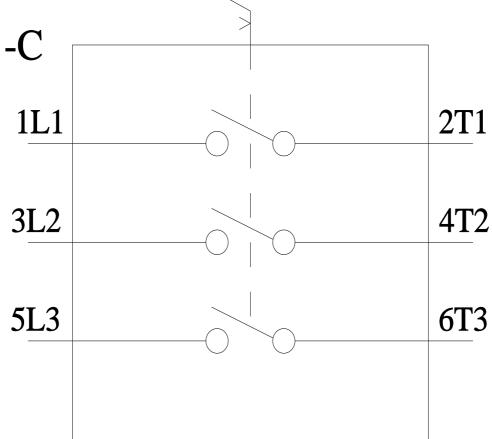












last modified: 6/20/2023 🖸