## **SIEMENS**

Data sheet 3LD2514-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, black, 4-hole mounting 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	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
• at AC-23 A at 400 V rated value	43 A

operating power	
<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	11 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	22 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	22 kW
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	19 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	11 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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
Suitability	
suitability for use	
• main switch	Yes
<ul> <li>switch disconnector</li> </ul>	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	5
attachable maximum	
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	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	6 kA
• at 440 V for combination switch + gG fuse maximum	6 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	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	63 A
rated value	
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 UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	175 A

Connections  AWG number as coded connectable conductor cross section solid maximum  • 1	type of fuse according to UL	RK5
solid maximum  Proper of connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing stranded  Proper of connectable conductor cross-sections for auxiliary solitors  solid  finely stranded with core end processing stranded  Proper of connectable conductor cross-sections for auxiliary solitors  solid  finely stranded with core end processing finely stranded with core end processing stranded  for main current circuit stranded  for main current cir	Connections	
• • • • • • • • • • • • • • • • • • •		
type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing finely stranded with core end processing stranded solid	•	6
condid         1x (2,535mm²)           e finely stranded with core end processing         1x (2,535mm²)           type of connectable conductor cross-sections for auxiliary contacts         ateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           e solid         lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           e finely stranded with core end processing         lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           e stranded         lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           type of electrical connection         lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           type of electrical connection         lateral auxiliary switch 2x (0,752,5mm²), 1x 4mm²; front auxiliary switch 1x (0,752,5mm²)           type of electrical connection         box terminal           e for auxiliary contacts         connection terminals           Mochanical Design           width         90 mm           depth         488.5 mm           type of device         fixed mounting           fastening method         Built-in unit fixed-mounted version           e stening method         Suitannelly in unit fixed-mounted version           e ret weight         624 g	•	14
• finely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid • solid • finely stranded with core end processing • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • stranded • taleral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x 2,5mm² • stranded • taleral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x 2,5mm² • for ain current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • connection terminals  Mechanical Design  Method • depth • 48.8 fm • ype of device • fixed mounting • fastening method • 4-hole front mounting • 4-Hole front mounting • front mounting with central attachment • 4-Hole front mounting • front mounting with central attachment • arall mounting • remove the design  method • arall mounting • arall mounting • arall mounting • remove the during operation • minimum • c25 °C • maximum  mabient temperature during storage • minimum • approximature during storage • minimum • minimum • c25 °C • minimum • maximum • c25 °C		
type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing • stranded  • strand	• solid	1x (2,535mm²)
type of connectable conductor cross-sections for auxiliary contacts  solid sol	<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
e solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  e finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²  e stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  type of electrical connection  e for main current circuit box terminal connection terminals  Mochanical Design  Methanical Design  Methanical Design  ### 106 mm  width 90 mm  depth 468.5 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  e 4-hole front mounting with central attachment No  e rail mounting with central attachment e rail mounting  weight 624 g  Environmental conditions  ###################################	• stranded	1x (2,535mm²)
• finely stranded with core end processing  • stranded  • stranded  • stranded  • stranded    lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²)    type of electrical connection   • for main current circuit   • for auxiliary contacts   box terminal   connection terminals    Mechanical Design   height   106 mm   width   90 mm   depth   468.5 mm   type of device   fixed mounting   fastening method   auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)    type of evice terminals    fixed mounting terminals   fixed mounting terminals   example of the control		
2,5mm²   lateral auxilliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxilliary switch 1x (0,75 2,5mm²)   type of electrical connection	• solid	
type of electrical connection	finely stranded with core end processing	
• for main current circuit • for auxiliary contacts  Mechanical Design  height  height  106 mm  width 90 mm  depth 468.5 mm  type of device fastening method fastening method  4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • minimum • maximum  - 25 °C ambient temperature during storage • minimum • maximum  - 25 °C amainum mumimum - 25 °C amainum mumimum - 25 °C amainum minimum - 25 °C 55 °C	stranded	
• for auxiliary contacts  Mechanical Design  height 106 mm  width 90 mm  depth 468.5 mm  type of device fixed mounting fastening method  • 4-hole front mounting with central attachment neighbor action with mounting in temperature during operation  • minimum - 25 °C  ambient temperature during storage  • minimum - 25 °C  ambient temperature during storage  • minimum - 25 °C  ambient temperature during storage  • minimum - 25 °C  • maximum 55 °C	type of electrical connection	
height 106 mm width 90 mm depth 468.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method Yes  • 4-hole front mounting Yes  • front mounting with central attachment No  • rail mounting Yes  net weight 624 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  - 25 °C  ambient temperature during storage  • minimum  • 25 °C  • maximum  - 25 °C	for main current circuit	box terminal
height 106 mm  width 90 mm  depth 468.5 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method Yes  • 4-hole front mounting Yes  • front mounting with central attachment No  • rail mounting Yes  net weight 624 g  Environmental conditions  ambient temperature during operation  • minimum -25 °C  ambient temperature during storage  • minimum  • -25 °C  ambient temperature during storage  • minimum  • -25 °C  ambient temperature during storage  • minimum  • -25 °C  • maximum  55 °C	<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
width 90 mm  depth 468.5 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method Yes	Mechanical Design	
depth 468.5 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting • front mounting with central attachment No • rail mounting • rail mounting  net weight 624 g  Environmental conditions  ambient temperature during operation • minimum • maximum 555 °C  ambient temperature during storage • minimum • minimum -25 °C  ambient temperature during storage • minimum • maximum 555 °C	height	106 mm
type of device fastening method Fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum • minimum • c25 °C ambient temperature during storage • minimum • minimum • -25 °C  • maximum  -25 °C  • maximum  -25 °C  55 °C	width	90 mm
fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • maximum  • maximum  -25 °C  ambient temperature during storage • minimum  -25 °C  • maximum  55 °C	depth	468.5 mm
fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • minimum • maximum  55°C  ambient temperature during storage • minimum • -25°C  ambient temperature during storage • maximum  55°C	type of device	fixed mounting
4-hole front mounting     front mounting with central attachment     rail mounting     Yes  net weight      624 g  Environmental conditions  ambient temperature during operation     minimum     maximum      55 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage  minimum     -25 °C  ambient temperature during storage  minimum     -25 °C  maximum  -25 °C	fastening method	Built-in unit fixed-mounted version
front mounting with central attachment     rail mounting     ret weight     624 g  Environmental conditions  ambient temperature during operation     minimum     maximum     55 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     maximum     55 °C	fastening method	
	<ul> <li>4-hole front mounting</li> </ul>	Yes
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	<ul> <li>front mounting with central attachment</li> </ul>	No
ambient temperature during operation  in maximum  in minimum  in maximum  in minimum  in m	rail mounting	Yes
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  -25 °C  -25 °C  -25 °C	net weight	624 g
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> maximum <ul> <li>55 °C</li> </ul>	Environmental conditions	
<ul> <li>maximum</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	ambient temperature during operation	
ambient temperature during storage	• minimum	-25 °C
<ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	maximum	55 °C
• maximum 55 °C	ambient temperature during storage	
	• minimum	-25 °C
Approvals Certificates	• maximum	55 °C
	Approvals Certificates	

General Product Approval





Confirmation







**General Product Approval** 

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Confirmation

Miscellaneous

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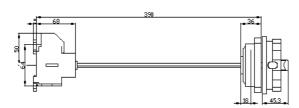
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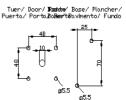
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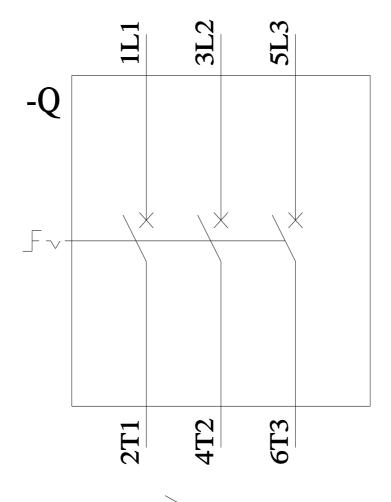
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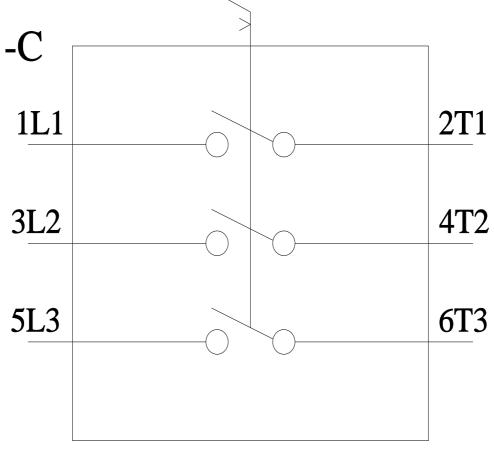












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