## **SIEMENS**

Data sheet 3LD2545-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, central mounting 22.5 mm of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP 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	red
design of handle	rotary operating mechanism, red/yellow
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
	43 A
operating power  • at AC-23 A at 240 V rated value	11 kW
	22 kW
at AC-23 A at 400 V rated value     at AC-23 A at 440 V rated value	22 kW
at AC-23 A at 440 V rated value	19 kW
• at AC-23 A at 690 V rated value	
at AC-3 at 240 V rated value	11 kW 19 kW
at AC-3 at 400 V rated value	
at AC-3 at 690 V rated value	15 kW
Auxiliary circuit	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 10 A
continuous current of the auxiliary contact rated value	500 V
insulation voltage of the auxiliary switch rated value  Suitability	500 V
	V
suitability for use main switch	Yes Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch suitability for use maintenance/repair switch	Yes
	res
Product details	Yes
product feature can be locked into OFF position accessories	100
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	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	04140
• at 240 V for combination switch + gG fuse maximum	21 kA2.s
at 440 V for combination switch + gG fuse maximum     at 600 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	fuce at lact 62 A
for short-circuit protection of the main circuit required     for short circuit protection of the auxiliary switch required	fuse gL/gG: 63 A
for short-circuit protection of the auxiliary switch required     operational current of upstream fuse rated value	fuse gL/gG: 10 A 63 A
according UL	00 A
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

AWG number as coded connectable conductor cross section solid maximum  • 6 • 14  type of connectable conductor cross-sections for copper conductor  • solid	UL 508/UL 60947-4-1	
AWG number as coded connectable conductor cross section solid maximum    Carpe   File   File		175 A
AWG number as coded connectable conductor cross section solid maximum  • 6 • 14  type of connectable conductor cross-sections for copper conductor  • solid	type of fuse according to UL	RK5
section solid maximum  • • 6 • 14  type of connectable conductor cross-sections for copper conductor  • solid • inely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • sile auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • finely stranded with core end processing • stranded  iateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • stranded  iateral auxiliary switch 2x (0,75 2,5mm²),	Connections	
type of connectable conductor cross-sections for copper conductor  • solid • inely 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  intelly stranded with core end processing • finely stranded with core end processing • stranded  intelly stranded with core end processing  intelly s		
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 stranded  solid so	•	6
conductor         1x (2,535mm²)           6 solid         1x (2,535mm²)           6 finely stranded with core end processing         1x (2,535mm²)           4 type of connectable conductor cross-sections for auxiliary contacts         conductor           6 solid         lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)           6 finely stranded with core end processing         lateral auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²)           6 stranded         lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)           6 for main current circuit         box terminal           6 for auxiliary contacts         connection terminals           6 for auxiliary contacts         connection terminals           6 for auxiliary contacts         done           6 for auxiliary contacts         connection terminals           6 for auxiliary contacts         done           6 for auxiliary contacts         fixed mounting           6 for auxiliary switch 2x (0,75	•	14
finely stranded with core end processing   1x (2.516 mm²)     styranded   1x (2.535mm²)     styranded   1x (2.535mm²)     styranded   1x (2.535mm²)     styranded   1x (2.535mm²)     styranded with core end processing   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded with core end processing   lateral auxiliary switch 2x (0.751,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.752,5mm²)     stranded   lateral auxiliary switch 2x (0.752,5mm²), 1x 4mm²; front auxiliary switch 1x (0.75		
stranded type of connectable conductor cross-sections for auxillary 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 (0,75 2,5mm²) stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) stranded losing connection storic auxiliary contacts connection solve terminal connection terminals storic auxiliary contacts connection terminals storic all positions stranded losing lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary contacts connection terminals storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 1,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) storic auxiliary switch 2x (0,75	• solid	1x (2,535mm²)
type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing • stranded  • stranded  • stranded  • stranded  • stranded  • for main current circuit • for main current circuit • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • stranded  • for main current circuit • for auxiliary contacts  • for auxiliary contacts  • solid  • for main current circuit • for auxiliary contacts  • solid  • for main current circuit • for auxiliary contacts  • solid  • for auxiliary switch 2x (0,75 2,5mm²), 1x 2,5mm², 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary contacts  • solid  • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary contacts  • solid • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • stranded  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • stranded  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • stranded  • for auxiliary	<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
contacts  • solid  • solid  • finely stranded with core end processing • stranded  • stranded  • stranded  • stranded  • stranded  • for main current circuit • for auxiliary contacts  • connection terminals  • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary contacts  • connection terminals  • for auxiliary contacts  • connection terminals  • for dauxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary contacts  • connection terminals  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary contacts  • connection terminals  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for main current circuit • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • for maining • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  • for auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 .	• stranded	1x (2,535mm²)
• finely stranded with core end processing  • finely stranded with core end processing  • stranded  • stranded  • stranded  • stranded  • stranded  • stranded  • for main current circuit  • for main current circuit  • for 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  • for auxiliary contacts  • connection terminals  **Method  **Down terminal  **Method  **Down terminal  **Method  **Down terminal  **Method  *		
2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  type of electrical connection	• solid	
type of electrical connection  • for main current circuit • for main current circuit • for auxiliary contacts  Acchanical Design  Acchanical Desig	• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• for main current circuit • for auxiliary contacts connection terminals  Acchanical Design  height individual person  width depth 488.5 mm type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  method  arail mounting  e minimum • minimum • maximum  e minimum • 55 °C  amblent temperature during storage • minimum • minimum • minimum • -25 °C • maximum • minimum • -25 °C • maximum	• stranded	
• for auxiliary contacts    International Design	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 front mounting with central attachment Yes rail mounting Yes net weight 697 g  invironmental conditions  ambient temperature during operation minimum -25 °C ambient temperature during storage minimum -55 °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         No           • 4-hole front mounting         No           • front mounting with central attachment         Yes           • rail mounting         Yes           net weight         697 g           invironmental conditions         Finition of temperature during operation           • minimum         -25 °C           • maximum         55 °C           ambient temperature during storage         Minimum           • 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  4-hole front mounting No Front mounting with central attachment Yes Frail mounting Yes  net weight 697 g  invironmental conditions  ambient temperature during operation  minimum - 25 °C  ambient temperature during storage minimum - 25 °C	Mechanical Design	
depth 468.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version  fastening method	height	106 mm
fixed mounting  fastening method  fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  ret weight  fixed mounting  No  No  4-hole front mounting  Front mounting with central attachment  Front mounting  Yes  net weight  fixed mounting  No  No  4-hole front mounting  Yes  697 g  fixed mounting  No  Front mounted version  Front mounting  Yes  697 g  Front mounting  Front mounting  Front mounting  Front mounting with central attachment  Yes  697 g  Front mounting  Front mounting	width	90 mm
fastening method fastening method	depth	468.5 mm
fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  ret weight  for g  front mounting  ret weight  for g  front mounting  ret weight  for g  for g  front mounting  for g	type of device	fixed mounting
4-hole front mounting     front mounting with central attachment     rail mounting     Yes  net weight     697 g  nvironmental 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     -55 °C	fastening method	Built-in unit fixed-mounted version
front mounting with central attachment     rail mounting     Yes  net weight 697 g  Invironmental conditions  ambient temperature during operation     minimum     rail mounting     maximum 55 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     minimum     -25 °C  for a maximum 55 °C  ambient temperature during storage     minimum 55 °C	fastening method	
e rail mounting  Net weight  Finitronmental conditions  ambient temperature during operation  e minimum  maximum  Finitronmental conditions  -25 °C  ambient temperature during storage  minimum  minimu	<ul> <li>4-hole front mounting</li> </ul>	No
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  -25°C  -25°C  -25°C  -55°C	<ul> <li>front mounting with central attachment</li> </ul>	Yes
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  • minimum  • 25 °C  ambient temperature during storage  • minimum  • 25 °C  • maximum  55 °C	rail mounting	Yes
ambient temperature during operation     -25 °C       minimum     55 °C       ambient temperature during storage     -25 °C       minimum     -25 °C       maximum     55 °C	net weight	697 g
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	Environmental conditions	
<ul> <li>maximum</li> <li>55 °C</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
	• maximum	55 °C
Approvais Certificates	Approvals Certificates	

**General Product Approval** 

Marine / Shipping







Miscellaneous





Marine / Shipping

other

Environment



Confirmation

**Miscellaneous** 

**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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2545-0TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2545-0TK53

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2545-0TK53">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2545-0TK53</a>

CAx-Online-Generator

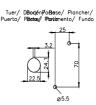
http://www.siemens.com/cax

**Tender specifications** 

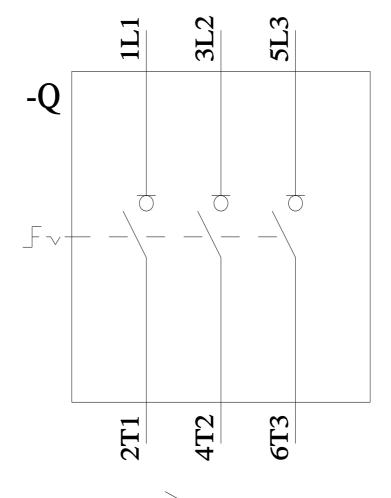
http://www.siemens.com/specifications

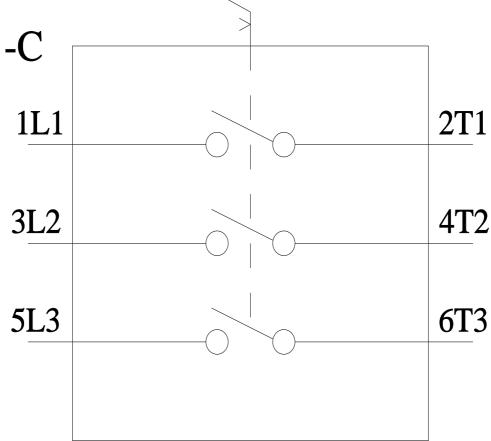












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