SIEMENS

Data sheet 3LD2254-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, front-mounted, 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	front mounted
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	2
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	1.8 W
Main circuit	
operational current	
at AC-21 at 690 V rated value	32 A
• at AC-21 A at 240 V rated value	32 A
• at AC-21 A at 400 V rated value	32 A
• at AC-21 A at 440 V rated value	32 A

operating power * at AC-25 A at 240 V rated value * at AC-25 A at 240 V rated value * at AC-25 A at 400 V rated value * at AC-25 A at 400 V rated value * at AC-25 A at 400 V rated value * at AC-3 at 240 V rated value * at AC-3 at 260 V rated value * at AC-3 of a combination switch + gG fisse maximum * at AC-3 of a combination switch + gG fisse maximum * at AC-3 of a combination switch + gG fisse maximum * at AC-3 of a combination switch + gG fisse maximum * at AC-3 of a combination switch + gG fisse maximum * at AC-3 of a combination switch + gG fisse max	at AC-23 A at 400 V rated value	22 A
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conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 10 tet-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • kA2.s • at 690 V for combination switch + gG fuse maximum • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • operational current of upstream fuse rated value 20 according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power (hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	hasp thickness of the bracket locks	4 8 mm
protection	Short circuit	
let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value		
at 240 V for combination switch + gG fuse maximum at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum bermissible 12t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum be for short-circuit protection of the main circuit required be for short-circuit protection of the auxiliary switch required be for short-circuit protection of the auxiliary switch required be operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	at 690 V by gG fuse rated value	50 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum because At 440 V for combinat	let-through current with closed switch	
• at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch	• at 240 V for combination switch + gG fuse maximum	4.5 kA
Description	• at 440 V for combination switch + gG fuse maximum	4.5 kA
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum by kA2.s design of the fuse link af for short-circuit protection of the main circuit required fuse gL/gG: 40 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	•	5 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum b kA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 40 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 	I2t value with closed switch	
at 690 V for combination switch + gG fuse maximum be for short-circuit protection of the main circuit required fuse gL/gG: 40 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	• at 240 V for combination switch + gG fuse maximum	9 kA2.s
design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 40 A according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	• at 440 V for combination switch + gG fuse maximum	9 kA2.s
• for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	• at 690 V for combination switch + gG fuse maximum	9 kA2.s
	design of the fuse link	
operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	 for short-circuit protection of the main circuit required 	fuse gL/gG: 40 A
according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value	operational current of upstream fuse rated value	40 A
rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	according UL	
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 20 60947-4-1 rated value		32 A
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value		600 V
60947-4-1 rated value		20
short-time withstand current (SCCR) at 600 V according to 5 kA		20
	short-time withstand current (SCCR) at 600 V according to	5 kA

AWG number as coded connectable conductor cross section solid maximum * a		
value RK5 Connections AWG number as coded connectable conductor cross section sold maximum • • • 14 type of connectable conductor cross-sections for copper conductor *** • solid 1x (1,516mm²) • finely stranded with core end processing 1x (1,516mm²) • finely stranded with core end processing 1x (1,516mm²) • solid 2x (0.752.5 mm²), 1x 4 mm² • solid 2x (0.752.5 mm²), 1x 4 mm² • finely stranded with core end processing 2x (0.752.5 mm²), 1x 4 mm² • finely stranded with core end processing 2x (0.752.5 mm²), 1x 4 mm² • finely stranded with core end processing 2x (0.752.5 mm²), 1x 4 mm² • finely stranded with core end processing 2x (0.752.5 mm²), 1x 4 mm² • for main current circuit box terminal • for auxiliary contacts connection terminals • for auxiliary contacts 33 mm • determinal Design 33 mm • forther auxiliary contacts 6 most muniting • forther auxiliary contacts 6 most muniting • forther auxiliary contacts 6 most muniting	UL 508/UL 60947-4-1	
AWG number as coded connectable conductor cross section sold maximum • 8 • 14 type of connectable conductor cross-sections for copper conductor • sold • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • solid • solid • (x (0.75 2.5 mm²), 1x 4 mm² • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded 2x (0.75 2.5 mm²), 1x 2.5 mm² • stranded type of electrical connection • for main current circut • for auxiliary contacts • connectable connection • for main current circut • for auxiliary contacts • connection terminals ### Add ### Ad	·	80 A
AWG number as coded connectable conductor cross section solid maximum • 14 type of connectable conductor cross-sections for copper conductor • solid	type of fuse according to UL	RK5
section solid maximum	Connections	
type of connectable conductor cross-sections for copper conductor - solid		
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 sfinely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid 2x (0.75 2.5 mm²), 1x 4 mm² 2x (0.75 2.5 mm²), 1x 4 mm² type of electrical connection for main current circuit for auxiliary contacts solid soli	•	8
conductor 1x (1,516mm²) 6 finely stranded with core end processing 1x (1,516mm²) 6 stranded 1x (1,516mm²) 1x (1,516mm²) 1x (1,516mm²) 1x per of connectable conductor cross-sections for auxiliary contacts connectable conductor cross-sections for auxiliary contacts 6 solid 2x (0.75 2.5 mm²), 1x 4 mm² 6 finely stranded with core end processing 2x (0.75 2.5 mm²), 1x 4 mm² 8 type of electrical connection 2x (0.75 2.5 mm²), 1x 4 mm² 6 for main current circuit box terminal 6 for auxiliary contacts connection terminals Mochanical Design sonnection terminals Melayth 83 mm width 67 mm depth 116.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version 4-hole front mounting No 4-hole front mounting with central attachment Yes 6 rail mounting No net weight 206 g environmental conditions 55 °C amblent temperature during storage 6 minimum	•	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 • stranded • finely stranded with core end processing • stranded • solid • for which connection • for main current circuit • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main current circuit • for auxiliary contacts • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for auxiliary contacts • for main current circuit • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary contacts • for main current circuit • for main current circuit • for main munting • for maximum • case auxiliary current cur		
• stranded 1x (1,516mm²) 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 2.5 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 • for auxiliary contacts • an main current circuit • for main current circuit • for mm depth 83 mm • type of device • fixed mounting • fastening method • 4-hole front mounting • 4-hole front mounting • front mounting with central attachment • rail mounting • tweight • and one of the contact of the cont	• solid	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm² type of electrical connection • for main current circuit • for auxiliary contacts • for auxiliary contacts ## Connection terminals ## Machine Institute Inst	 finely stranded with core end processing 	1x (1,510mm²)
contacts 2x (0.75 2.5 mm²), 1x 4 mm² e solid 2x (0.75 2.5 mm²), 1x 2.5 mm² e stranded 2x (0.75 2.5 mm²), 1x 2.5 mm² type of electrical connection 6 for main current circuit e for main current circuit box terminal e for auxiliary contacts connection terminals Mechanical Design 83 mm width 67 mm depth 116.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method 9 built-in unit fixed-mounted version fastening with central attachment Yes e rail mounting No et weight 206 g convironmental conditions ambient temperature during operation -25 °C e minimum -25 °C e minimum -25 °C e minimum -25 °C e minimum -55 °C e minimum -55 °C e minimum -55 °C	• stranded	1x (1,516mm²)
• finely stranded with core end processing • stranded type of electrical connection • for main current circuit • for auxiliary contacts **Rechanical Design** **height** **height** **height** **height** **height** **he		
e stranded 2x (0.75 2.5 mm²), 1x 4 mm² type of electrical connection	• solid	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	 finely stranded with core end processing 	2x (0.75 1.5 mm²), 1x 2.5 mm²
• for main current circuit • for auxiliary contacts Acchanical Design height 83 mm width 67 mm depth 116.5 mm type of device fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting method • rail mounting method • rail mounting method • rail mounting method • rail mounting • minimum • minimum • maximum • minimum • 25° °C ambient temperature during storage • minimum • minimum • minimum • 25° °C ambient temperature during storage • minimum • minimum • 25° °C ambient temperature during storage • minimum • minimum • 25° °C ambient temperature during storage • minimum • minimum • 25° °C ambient temperature during storage • minimum • minimum • 25° °C	• stranded	2x (0.75 2.5 mm²), 1x 4 mm²
• for auxiliary contacts Mechanical Design height 83 mm width 67 mm depth 116.5 mm type of device fixed mounting fastening method 4-hole front mounting with central attachment 7eal mounting 1 No net weight 206 g invironmental conditions ambient temperature during operation minimum -25 °C ambient temperature during storage minimum -25 °C maximum 55 °C	type of electrical connection	
height 83 mm width 67 mm depth 116.5 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 No net weight 206 g Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • 55 °C	for main current circuit	box terminal
height 83 mm width 67 mm depth 116.5 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 • rail mounting No net weight 206 g Environmental conditions ambient temperature during operation • minimum • minimum • 25 °C ambient temperature during storage • minimum • minimum • -25 °C ambient temperature during storage • minimum • minimum • 25 °C ambient temperature during storage • minimum • 35 °C Approvals Certificates	 for auxiliary contacts 	connection terminals
width 67 mm depth 116.5 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 • rail mounting No net weight 206 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 ambient temperature during storage • minimum • -25 °C	Mechanical Design	
depth type of device fixed mounting fastening method Built-in unit fixed-mounted version • 4-hole front mounting No • front mounting with central attachment Yes • rail mounting No net weight 206 g Environmental conditions ambient temperature during operation • maximum • maximum 55 °C ambient temperature during storage • minimum • -25 °C • maximum • maximum 55 °C	height	83 mm
fixed mounting fastening method e 4-hole front mounting e front mounting with central attachment e rail mounting net weight fastening method e 3-hole front mounting with central attachment e rail mounting e front mounting with central attachment e rail mounting No net weight 206 g fixed mounting No e 3-hole front mounting with central attachment e rail mounting with central attachment e rail mounting No - 26 ° C - maximum - 25 ° C - minimum e minimum e - 25 ° C - maximum - 25 ° C - maximum - 25 ° C - maximum - 25 ° C - maximum - 25 ° C - maximum - 25 ° C	width	67 mm
fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight ambient temperature during operation • maximum • minimum • 55°C ambient temperature during storage • minimum • minimum • c25°C • maximum • mounting storage • minimum • minimum • c25°C • maximum • mounting storage • minimum • minimum • c25°C • maximum • c25°C	depth	116.5 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting • rail mounting • rail mounting net weight 206 g Environmental conditions ambient temperature during operation • minimum • maximum 55°C ambient temperature during storage • minimum • maximum 55°C	type of device	fixed mounting
4-hole front mounting front mounting with central attachment front mounting with central attachment rail mounting No net weight 206 g Environmental conditions ambient temperature during operation minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C Approvals Certificates	fastening method	Built-in unit fixed-mounted version
• front mounting with central attachment • rail mounting • rail mounting No net weight 206 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 Approvals Certificates	fastening method	
 e rail mounting No net weight 206 g Environmental conditions ambient temperature during operation e minimum -25 °C e maximum 55 °C ambient temperature during storage e minimum -25 °C amaximum 55 °C Approvals Certificates 	4-hole front mounting	No
net weight 206 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 Approvals Certificates	 front mounting with central attachment 	Yes
ambient temperature during operation	rail mounting	No
ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum • maximum -25 °C	net weight	206 g
 minimum maximum 55 °C ambient temperature during storage minimum -25 °C maximum 55 °C Approvals Certificates	Environmental conditions	
maximum	ambient temperature during operation	
ambient temperature during storage • minimum • maximum 55 °C Approvals Certificates	• minimum	
 minimum -25 °C maximum 55 °C Approvals Certificates 	maximum	55 °C
maximum 55 °C Approvals Certificates	ambient temperature during storage	
Approvals Certificates	• minimum	-25 °C
	maximum	55 °C
General Product Approval	Approvals Certificates	
	General Product Approval	









Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Miscellaneous

Confirmation

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2254-0TK53}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2254-0TK53

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

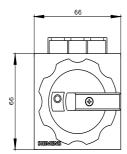
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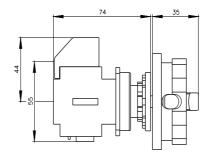
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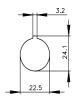
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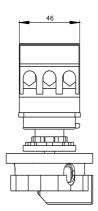
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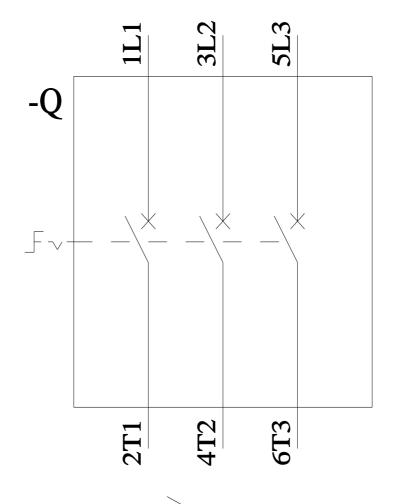
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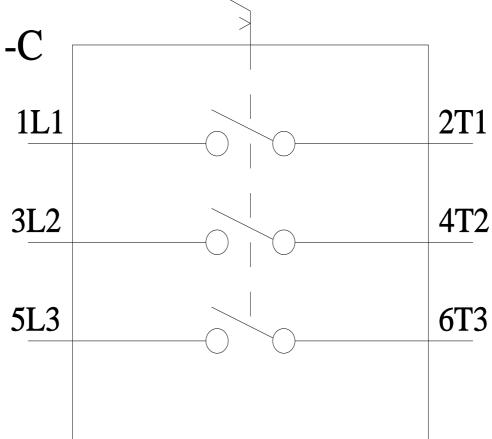












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