SIEMENS

Data sheet

3LD2154-1TP53

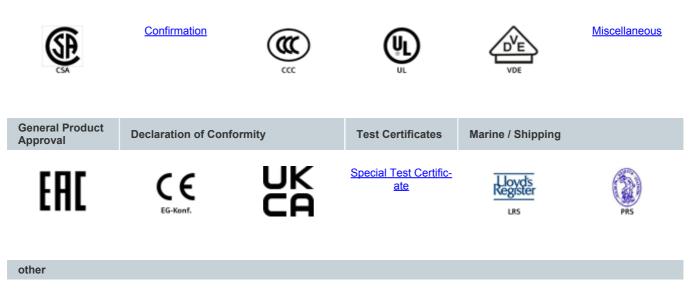


SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, Red / yellow, Central mounting 22.5 mm of the handle

product brand name SENTRON product designation 3LD 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 switch rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles number of poles 3 size of switch disconnector 2 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 60 1/h degree of pollution 3 Voltage 690 V surge voltage resistance / rated value 690 V operating voltage 690 V e at AC / rated value 690 V operating voltage 1, 3R, 4X, 12 <t< th=""><th>Model</th><th></th></t<>	Model	
design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 10N - 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 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6000 electrical endurance (switching cycles) / typical 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage for V insulation voltage / rated value 690 V operating voltage e e at AC / rated value 690 V operating rotection Class grotection class IP protection class IP / on the front IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection alcass IP / on the front IP65 Dissipation	product brand name	SENTRON
display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element red color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data	product designation	3LD Switch disconnector
operation front mounted type of switch front mounted design of the actuating element red 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	design of the product	EMERGENCY-STOP switch
Short rotary knob color / of the actuating element red design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V 6000 operating frequency / maximum 50 1/h degree of pollution 3 voltage • at AC / rated value operating frequency / raximum 690 V surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value 600 V operating frequency / rated value 600 V operating frequency / rated value 600 V operating frequency / rated value fold Hz Protection class IP protection class IP / on the front Dissipation		1 ON - 0 OFF
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 Immber of poles number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V e at AC / rated value 690 V operating requency / rated value 690 V e at AC / rated value 690 V operating frequency / rated value 690 V e maximum 50 Hz minimum 60 Hz Protection class IP IP65 protection class IP / on the front IP65 Dissipation 1.1 W porerating state	type of switch	front mounted
design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data	design of the actuating element	Short rotary knob
type of the driving mechanism / motor drive No General technical data number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / maximum 50 Hz operating frequency / rated value 690 V operating requency / rated value 690 V operating roltage 6 kV operating roltage 6 kV operating roltage 6 kV operating roltage 600 Hz Protection class IP IP65 degree of protection NEMA rating IP65 degree of protection NEMA rating I, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current 25 A operational current 25 A <td>color / of the actuating element</td> <td>red</td>	color / of the actuating element	red
General technical data number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 </td <td>design of handle</td> <td>rotary operating mechanism, red/yellow</td>	design of handle	rotary operating mechanism, red/yellow
number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operation class IP 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W pover loss [W] / for rated value of the current / at AC / in hot operat	type of the driving mechanism / motor drive	No
size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operation class IP 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current 25 A	General technical data	
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electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating requency / rated value 690 V • at AC / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 25 A	size of switch disconnector	2
• at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 6 kV operating requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 1.1 R Protection class IP IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current operational current / rated value 25 A	mechanical service life (switching cycles) / typical	100 000
operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 60 Hz operating frequency / rated value 1, 3R, 4X, 12 protection class IP IP65 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 25 A operational current 25 A	electrical endurance (switching cycles)	
degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 6 kV operating frequency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP 1065 protection class IP IP65 operating state / per pole 1.1 W operating state / per pole 25 A operational current 25 A	• at AC-23 A / at 690 V	6 000
Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 6 kV operating frequency / rated value 690 V operating frequency / rated value 600 Hz Protection class 100 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Operational current / rated value 25 A	operating frequency / maximum	50 1/h
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 6 kV • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 current 0perating state / per pole Operating state / per pole 25 A	degree of pollution	3
surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz • minimum 50 Hz • maximum 60 Hz Protection class 100 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current 25 A	Voltage	
operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz • minimum 60 Hz Protection class 60 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Operational current / rated value 25 A	insulation voltage / rated value	690 V
• at AC / rated value 690 V operating frequency / rated value 50 Hz • 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 Current 25 A operational current / rated value 25 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value 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 1.1 W Current 25 A operational current / rated value 25 A	operating voltage	
• minimum 50 Hz • maximum 60 Hz Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Operational current / rated value 25 A operational current 25 A	 at AC / rated value 	690 V
maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 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 Current operational current / rated value 25 A	operating frequency / rated value	
Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current 25 A operational current 25 A	• minimum	50 Hz
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current 25 A operational current 25 A	• maximum	60 Hz
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 1.1 W Current 25 A operational current 25 A	Protection class	
protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current 25 A operational current 25 A	protection class IP	IP65
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current 25 A operational current 25 A	degree of protection NEMA rating	1, 3R, 4X, 12
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current Operational current / rated value operational current 25 A	protection class IP / on the front	IP65
hot operating state / per pole Current operational current / rated value 25 A operational current 25 A	Dissipation	
operational current / rated value 25 A operational current 25 A		1.1 W
operational current	Current	
	operational current / rated value	25 A
a at 40 °C / rated value	operational current	
• at 40 C / fated Value 25 A	• at 40 °C / rated value	25 A
• at 45 °C / rated value 25 A	• at 45 °C / rated value	25 A

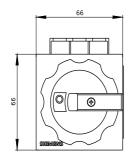
• at 50 °C / rated value	25 A
• at 55 °C / rated value	25 A
at AC / rated value	25 A
Main circuit	
operational current	
 at AC-21 / at 690 V / rated value 	25 A
 at AC-21 A / at 240 V / rated value 	25 A
 at AC-21 A / at 400 V / rated value 	25 A
 at AC-21 A / at 440 V / rated value 	25 A
• at AC-23 A / at 400 V / rated value	20 A
operating power	
 at AC-23 A / at 240 V / rated value 	5 kW
 at AC-23 A / at 400 V / rated value 	10 kW
 at AC-23 A / at 440 V / rated value 	9.5 kW
 at AC-23 A / at 690 V / rated value 	10 kW
 at AC-3 / at 240 V / rated value 	4 kW
 at AC-3 / at 400 V / rated value 	8 kW
• at AC-3 / at 690 V / rated value	7.5 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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
 switch disconnector 	Yes
 EMERGENCY OFF switch 	Yes
 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
motor drive voltage trigger	No No
voltage trigger number of connectable NC contacts / for auxiliary contacts	
voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum	No 1
voltage trigger number of connectable NC contacts / for auxiliary contacts	No
voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts	No 1
voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts	No 1 1
voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum	No 1 1 0
• voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum	No 1 1 0 3
• voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks	No 1 1 3
• voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse	No 1 1 0 3
• voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection	No 1 1 1 0 3 4 8 mm
• voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value	No 1 1 1 0 3 4 8 mm
 voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / 	No 1 1 0 3 4 8 mm
 voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value 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 / by combination switch + gG fuse / maximum 	No 1 1 0 3 4 8 mm
 voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value 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 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum 	No 1 1 0 3 4 8 mm
 voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value 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 	No 1 1 0 3 4 8 mm

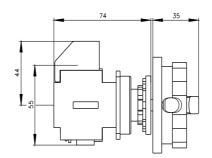
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 25 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	25 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
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	8
• minimum	14
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (1,516mm²)
 finely stranded / with core end processing 	1x (1,510mm²)
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 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	84 mm
width	67 mm
depth	116.5 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	205 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	

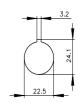


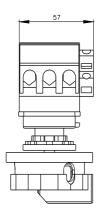
Environmental Confirmations Miscellaneous

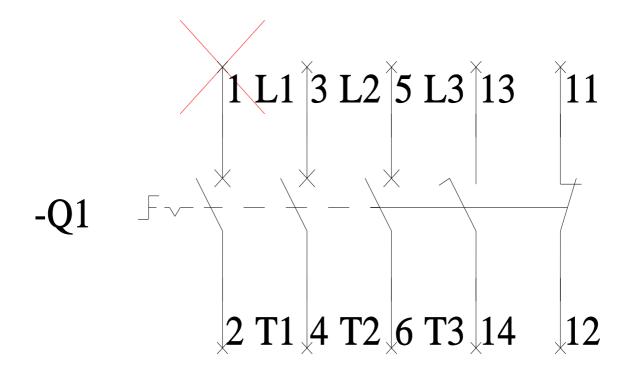
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	duct images, 2D dimension drawings, 3D models, device circuit diagrams,) .siemens.com/bilddb/cax_en.aspx?mlfb=3LD2154-1TP53
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Tender specificatio	s om/specifications

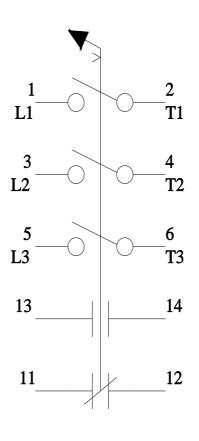












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