## **SIEMENS**

Data sheet 3TC4417-0LB4



contactor, DC-3/DC-5, 32 A, 2-pole, 24 V DC, 0.7-1.25 $^{\ast}$  Uc, with varistor and series resistor, auxiliary contacts: 2 NO + 1 NC, screw terminal, frame size 2, for railway applications

product designation	Contactor	
product type designation	3TC	
General technical data		
size of contactor	2	
product extension		
<ul> <li>function module for communication</li> </ul>	No	
auxiliary switch	No	
insulation voltage rated value	800 V	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	300 V	
shock resistance at rectangular impulse		
• at DC	7,5g / 5 ms, 3,4g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
of the contactor with added auxiliary switch block typical	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	02/01/2012	
SVHC substance name	Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1	
Weight	1.322 kg	
Ambient conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-40 +70 °C	
during storage	-50 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles	2	
number of poles for main current circuit	2	
number of NO contacts for main contacts	2	
number of NC contacts for main contacts	0	
type of voltage	DC	
operational current		
at 1 current path at DC-1		
— at 24 V rated value	32 A	
— at 110 V rated value	32 A	
— at 220 V rated value	32 A	
<ul><li>with 2 current paths in series at DC-1</li></ul>		
— at 24 V rated value	32 A	
— at 110 V rated value	32 A	

	— at 220 V rated value	32 A
### and DC-3 at DC-3 a	— at 440 V rated value	32 A
* at DC-3 trader value	— at 600 V rated value	32 A
	— at 750 V rated value	32 A
	• at DC-3 at DC-5	
	— at 220 V rated value	32 A
	— at 600 V rated value	21 A
	— at 750 V rated value	7.5 A
	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
■ with 2 current paths in series at DC-3 at DC-5           ■ 12 V rated value         32 A           ■ at 110 V rated value         32 A           ■ 20 22 V rated value         32 A           ■ 440 V rated value         29 A           ■ 6 800 V rated value         21 A           ■ 7 750 V rated value         7.5 A           operating power         ■ 110 V rated value           ■ 110 V rated value         7 kW           ■ 4 10 C-1         ■ 1750 V rated value           ■ 22 V rated value         7 kW           ■ 4 40 V rated value         14 kW           ■ 4 10 C-3 at 10 C-5         ■ 110 V rated value           ■ 4 10 C-3 at 10 C-5         ■ 110 V rated value           ■ 4 20 V rated value         5 kW           ■ 2 22 V rated value         5 kW           ■ 2 22 V rated value         9 kW           ■ 14 0V rated value         9 kW           ■ 17 50 V rated value         4 kW           ● at DC-1 maximum         1 500 1/h           ● at DC-1 maximum         1 500 1/h           ● at DC-3 maximum         750 1/h           ● at DC-3 maximum         750 1/h           Outrol circuit/ Control         10 kW           Incord of supply voltage         DC      <	— at 24 V rated value	32 A
with 2 current paths in series at DC-3 at DC-5	— at 110 V rated value	32 A
all 24 Vinted value 32 A   all 110 Virated value 32 A   all 400 Virated value 32 A   all 400 Virated value 23 A   all 400 Virated value 21 A   all 400 Virated value 7.5 A    Operating power   all 750 Virated value 7.5 A    Operating power   all 110 Virated value 7.5 A    Operating power   all 110 Virated value 7.5 W   all 400 Virated value 7.5 W   all 400 Virated value 7.5 W   all 400 Virated value 14 kW   all 400 Virated value 24 kW   all 200 Virated value 24 kW   all 200 Virated value 5.6 W   all 400 Virated value 5.6 W   all 400 Virated value 5.6 W   all 400 Virated value 9.6 W   all 400 Virat		32 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
at 440 V rated value		
at 750 V rated value 7.5 A operating power  * at DC-1  at 110 V rated value 7.6 M at 220 V rated value 7.6 M at 220 V rated value 7.6 M at 440 V rated value 14.6 M at 440 V rated value 14.6 M at 750 V rated value 22.6 kW at 750 V rated value 5.6 kW at 100 V rated value 5.6 kW at 440 V rated value 5.6 kW at 440 V rated value 9.8 W at 440 V rated value 9.8 W at 460 V rated value 9.8 W at 750 V rated value 9.8 W at DC-3 maximum 750 fth at DC-4 maximum 750 fth at DC-5 maximum 750 fth 750 fth at DC-5 maximum 750 fth 750 fth at DC-5 maximum 750 fth 7		
at DC-1		
		7.5 A
at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 1750 V rated value at 1750 V rated value at 1750 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 460 V rated value at 600 V rated value at 750 V rated value at 10-2 maximum 750 1/h at 10-2 maximum 750 1/h 20 maximum 20 M rated value at 10-2 maximum 24 V votasje of the control supply voltage 24 V votasje of the control supply voltage 24 V votasje of the surge suppressor with varistor closing power of magnet coil at 10C 48 W holding power of magnet coil at 10C 35 190 ms opening delay at 10C 36 190 ms opening delay at 10C arcling time 20 30 ms 20 30		
at 220 V rated value		
at 440 V rated value		
- at 750 V rated value 24 kW  ■ at DC-3 at DC-5  - at 110 V rated value 5 kW  - at 220 V rated value 9 kW  - at 440 V rated value 9 kW  - at 600 V rated value 9 kW  - at 750 V rated value 4 kW  operating frequency  ■ at DC-1 maximum 750 1/h  ■ at DC-3 maximum 750 1/h  ■ at DC-3 maximum 750 1/h  Control ctrcult/ Control  type of voltage of the control supply voltage DC  control supply voltage at DC rated value 24 V  design of the surge suppressor with varistor  closing power of magnet coll at DC 13 W  holding power of magnet coll at DC 35 190 ms  opening delay at DC 35 190 ms  opening delay at DC 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts 2  • instantaneous contact 1  number of NC contacts for auxiliary contacts 2  number of NC contacts for auxiliary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for sulvillary contacts 2  instantaneous contact 1  number of NC contacts for auxillary contacts 2  instantaneous contact 1  number of NC contacts for auxillary contacts 2  instantaneous contact 1  number of NC contacts for auxillary contacts 2  instantaneous contact 1  number of NC contacts for auxillary contacts 2  instantaneous contact 1  number of NC contacts for auxillary contacts 2  in		
- at 110 V rated value		24 KVV
at 220 V rated value 9 kW at 600 V rated value 9 kW at 600 V rated value 9 kW at 750 V rated value 4 kW at 750 V rated value 4 kW at 750 V rated value 4 kW at 750 V rated value 5 kW at 750 V rated value 5 kW at 750 V rated value 5 kW at 750 V rated value 6 kW at 750 V rated value 7 to 1500 V/h at 750 V rated value 7 to 1500 V/h at 750 V rated value 7 to 1500 V/h at 750 V rated value 8 kW at 750 V rated value 9 to 1500 V/h 2500 V/h		O.F.IAM
at 440 V rated value at 600 V rated value at 750 V rated value  operating frequency  • at DC-1 maximum at DC-5 maximum at DC-5 maximum 750 1/h • at DC-5 maximum 750 1/h  Control circuit/ Control  Uppe of voltage of the control supply voltage Control supply voltage at DC rated value design of the surge suppressor with varistor closing power of magnet coil at DC da 8 W holding power of magnet coil at DC da 8 W holding power of magnet coil at DC da 8 W dosing delay at DC opening delay at DC opening delay at DC arcing time 20 30 ms Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact 1 number of NC contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 2  number of NO contacts for auxiliary contacts instantaneous contact 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
at 600 V rated value		
operating frequency  at DC-1 maximum  at DC-5 maximum  750 1/h  cat DC-5 maximum  750 1/h  control circuit/ Control  type of voltage of the control supply voltage  Control supply voltage at DC rated value  24 V  design of the surge suppressor  with varistor  closing power of magnet coil at DC  das W  holding power of magnet coil at DC  at 35 190 ms  opening delay at DC  opening delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  identification number and letter for switching elements  operational current at AC-15 maximum  operational current at AC-15 maximum  operational current at AC-10 maximum  at 400 V rated value  at 40 V rated value  at 60 V rated value		
at DC-1 maximum at DC-3 maximum 750 1/h at DC-5 maximum 750 1/h  control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC rated value 24 V design of the surge suppressor with varistor closing power of magnet coil at DC holding power of magnet coil at DC 35 190 ms opening delay at DC arong time 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact 1 number of NO contacts for auxiliary contacts instantaneous contact 2 number of CO contacts for auxiliary contacts instantaneous contact 2 number of CO contacts for auxiliary contacts 2 instantaneous contact 2 number of CO contacts for auxiliary contacts 2 instantaneous contact 1 0 coperational current at AC-12 maximum 10 A 0 coperational current at AC-15 at 230 V rated value 5.6 A at 400 V rated value 5.6 A at 400 V rated value 10 A  operational current at DC-12 at 24 V rated value 10 A  operational current at DC-12 at 48 V rated value 10 A  operational current at DC-12 at 48 V rated value 10 A operational current at DC-12 at 48 V rated value 10 A		+ KVV
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at DC-5 maximum  To50 1/h  Control circuit/ Control  type of voltage of the control supply voltage  Control supply voltage at DC rated value  design of the surge suppressor  with varistor  closing power of magnet coil at DC  dosing delay at DC  dosing delay at DC  opening delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  number of CO contacts for auxiliary contacts  itenstification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 48 V rated value  at 60 V rated value		
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type of voltage of the control supply voltage  control supply voltage at DC rated value  design of the surge suppressor  closing power of magnet coil at DC  dolsing power of magnet coil at DC  dolsing delay at DC  opening delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  closing delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NO contacts for auxiliary contacts  instantaneous contact  1  number of NO contacts for auxiliary contacts  identification number and letter for switching elements  identification number at AC-12 maximum  operational current at AC-15  at 230 V rated value  5.6 A  at 400 V rated value  5.6 A  at 400 V rated value  10 A  operational current at DC-12  at 24 V rated value  10 A  at 48 V rated value  10 A  at 48 V rated value  10 A  at 48 V rated value  10 A		700 1/11
control supply voltage at DC rated value  design of the surge suppressor  closing power of magnet coil at DC  A8 W  holding power of magnet coil at DC  13 W  closing delay at DC  35 190 ms  opening delay at DC  10 25 ms  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  instantaneous contact  instantaneous contact  2  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 48 V rated value  at 60 V rated value		DC
design of the surge suppressor  closing power of magnet coil at DC  holding power of magnet coil at DC  13 W  closing delay at DC  35 190 ms  opening delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  closing time  2		
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arcing time 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts 2  • instantaneous contact 1  number of NO contacts for auxiliary contacts 2  • instantaneous contact 2  number of CO contacts for auxiliary contacts 0  identification number and letter for switching elements 21  operational current at AC-12 maximum 10 A  operational current at AC-15  • at 230 V rated value 5.6 A  • at 400 V rated value 3.6 A  • at 500 V rated value 2.5 A  operational current at DC-12  • at 24 V rated value 10 A  • at 48 V rated value 10 A  • at 60 V rated value 10 A  • at 60 V rated value 10 A		10 25 ms
Auxiliary circuit  number of NC contacts for auxiliary contacts  • instantaneous contact  number of NO contacts for auxiliary contacts  • instantaneous contact  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  10 A  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  3.6 A  • at 500 V rated value  • at 24 V rated value  • at 24 V rated value  • at 48 V rated value  • at 48 V rated value  • at 46 V vated value  • at 60 V rated value	,	
number of NC contacts for auxiliary contacts  ● instantaneous contact  number of NO contacts for auxiliary contacts  ● instantaneous contact  1  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  10 A  operational current at AC-15  ● at 230 V rated value  ■ at 400 V rated value  ■ at 500 V rated value  ■ at 24 V rated value  ■ at 24 V rated value  ■ at 48 V rated value  ■ at 48 V rated value  ■ at 40 V rated value  ■ at 48 V rated value  ■ at 60 V rated value		
number of NO contacts for auxiliary contacts  instantaneous contact  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value	number of NC contacts for auxiliary contacts	2
<ul> <li>instantaneous contact</li> <li>number of CO contacts for auxiliary contacts</li> <li>identification number and letter for switching elements</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 5.6 A</li> <li>at 500 V rated value</li> <li>21</li> <li>operational current at AC-15</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>10 A</li> <li>at 60 V rated value</li> <li>10 A</li> </ul>	• instantaneous contact	1
number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  10 A	number of NO contacts for auxiliary contacts	2
identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  10 A  • at 60 V rated value  10 A	• instantaneous contact	2
operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  10 A	number of CO contacts for auxiliary contacts	0
operational current at AC-15	identification number and letter for switching elements	21
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> </ul>	operational current at AC-12 maximum	10 A
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>2.5 A</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>10 A</li> <li>at 60 V rated value</li> <li>10 A</li> </ul>	operational current at AC-15	
• at 500 V rated value	• at 230 V rated value	5.6 A
operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  10 A  10 A	• at 400 V rated value	3.6 A
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>10 A</li> <li>10 A</li> <li>10 A</li> </ul>		2.5 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>10 A</li> <li>10 A</li> </ul>		
• at 60 V rated value 10 A		
• at 110 V rated value 3.2 A		
	at 110 V rated value	3.2 A

at 125 V rated value	2.5 A
at 220 V rated value	0.9 A
at 600 V rated value	0.22 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	5 A
at 60 V rated value	5 A
<ul> <li>at 110 V rated value</li> </ul>	1.14 A
at 125 V rated value	0.98 A
at 220 V rated value	0.48 A
at 600 V rated value	0.07 A
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	2 x 3NA3020 (50 A) in series (750 V, 3 kA)
with type of coordination 2 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA)
for short-circuit protection of the auxiliary switch required	gG: 16 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward
	and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	115 mm
width	82 mm
depth	145 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	15 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
for grounded parts	
— forwards	30 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	30 mm
— backwards	0 mm
— upwards	10 mm
— upwards — downwards	10 mm
— at the side	10 mm
— at the side  Connections/ Terminals	IV IIIII
	acrou terminal
type of electrical connection	screw terminal
for main current circuit     for applications and control circuit	screw-type terminals
for auxiliary and control circuit  The of connectable conductor areas positions for main contracts.	screw-type terminals
type of connectable conductor cross-sections for main contacts	01/05 40 2222
• solid or stranded	2x (2,5 10 mm²)
finely stranded with core end processing	2x (1.5 4 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (1 2.5 mm²)
— finely stranded with core end processing	2x (0.75 1.5 mm²)
Safety related data	
product function mirror contact according to IEC 60947-4-1	Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively
Electrical Safety	

protection class IP on the front according to IEC 60529

IP00

**Approvals Certificates** 

**General Product Approval** 

**Functional Saftey** 











Type Examination Certificate

**Test Certificates** 

other

**Dangerous goods** 

**Miscellaneous** 

Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>



Confirmation **Transport Information** 

## **Environment**

**Environmental Confirmations** 

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC4417-0LB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0LB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0LB4

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

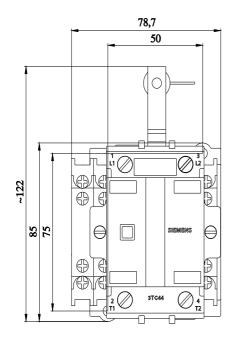
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4417-0LB4&lang=en

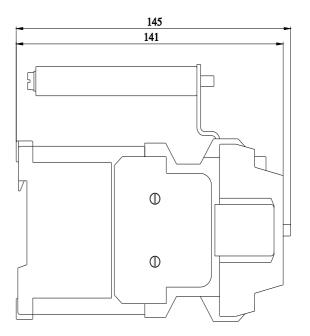
Characteristic: Tripping characteristics, I2t, Let-through current

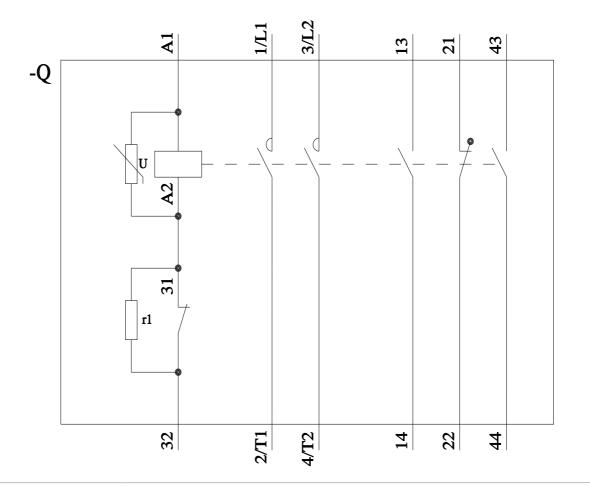
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0LB4/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0LB4&objecttype=14&gridview=view1







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