SIEMENS

Data sheet

3TC5617-0BK1



Contactor size 12, 2-pole DC-3 and 5, 400 A Auxiliary switch 22 (2 NO + 2 NC) Direct current operation 120 V AC 60 Hz/100 V AC 50 Hz

product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	12
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage rated value	1 000 V
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	660 V
shock resistance at rectangular impulse	
• at AC	12g / 5 ms, 5,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	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)	05/01/2012
Ambient conditions	
ambient temperature	
 during operation 	-25 +55 °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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	400 A
— at 600 V rated value	400 A

— at 750 V rated value	400 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	220 A
— at 110 V rated value	220 A
— at 220 V rated value	400 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	400 A
— at 600 V rated value	400 A
— at 750 V rated value	400 A
operating power	
• at DC-1	
— at 110 V rated value	44 kW
— at 220 V rated value	88 kW
— at 440 V rated value	176 kW
— at 750 V rated value	300 kW
• at DC-3 at DC-5	
— at 110 V rated value	35 kW
— at 220 V rated value	70 kW
— at 440 V rated value	140 kW
— at 600 V rated value	200 kW
— at 750 V rated value	250 kW
operating frequency	
• at DC-1 maximum	1 000 1/h
• at DC-3 maximum	600 1/h
• at DC-5 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
	AC 100 V
control supply voltage at AC	
 control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of 	100 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	100 V 120 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz	100 V 120 V 0.8 1.1
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC	100 V 120 V 0.8 1.1 1 780 VA
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA
 control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 60 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz 	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3
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 control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 60 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz 	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 0.3 121 VA 121 VA 121 VA
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz • at 60 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 121 VA 122 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.22
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control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.22
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control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz at 60 Hz at 60 Hz • at 60 Hz <td>100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 121 VA 121 VA 121 VA 120 VA 0.22 0.23 0.23 0.23 0.25 0.55</td>	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 121 VA 121 VA 121 VA 120 VA 0.22 0.23 0.23 0.23 0.25 0.55
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.22 0.22 0.29 20 30 ms
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz at 60 Hz • at 60 Hz </td <td>100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 140 VA 0.22 0.22 0.22 0.29 20 30 ms</td>	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 140 VA 0.22 0.22 0.22 0.29 20 30 ms
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control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent factor with the holding power of the coil • at 50 Hz • at 60 Hz arcing time 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	100 V 120 V 0.8 1.1 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.22 0.22 0.29 20 30 ms 2 2 2 2 2 2 2 2 2 2 2
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz arcing time 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	100 V 120 V 0.8 1.1 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.22 0.22 0.22 0.29 20 30 ms 2 2 2 0 0
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 60 Hz inductive power factor with the holding power of the coil • at 60 Hz inductive power factor with the nolding power of the coil • at 60 Hz inductive power factor with the nolding power of the coil • at 60 Hz arcing time Auxiliary circuit <td>100 V 120 V 0.8 1.1 1 780 VA 2 140 VA 0.3 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.29 20 30 ms 2 2 2 2 2 10 A</td>	100 V 120 V 0.8 1.1 1 780 VA 2 140 VA 0.3 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.29 20 30 ms 2 2 2 2 2 10 A
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz arcing time 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 • instantaneous contact number of CO contacts for auxiliary contacts	100 V 120 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 121 VA 121 VA 140 VA 0.22 0.29 20 30 ms 2 2 2 2 10 A 5.6 A
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the nolding power of the coil • at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary con	100 V 120 V 0.8 1.1 1 780 VA 2 140 VA 0.3 0.3 0.3 0.3 121 VA 121 VA 121 VA 140 VA 0.22 0.29 20 30 ms 2 2 2 2 2 10 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 110 V rated value	8 A
 at 125 V rated value 	6 A
 at 220 V rated value 	2 A
 at 600 V rated value 	0.4 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
• at 110 V rated value	2.4 A
 at 125 V rated value 	2.1 A
at 220 V rated value	1.1 A
• at 600 V rated value	0.21 A
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 with type of coordination 1 required 	2 x 3NE1330-4D (315 A) parallel (750 V, 12 kA)
 — with type of assignment 2 required 	2 x 3NE1330-4D (315 A) parallel (750 V, 12 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; standing, on horizontal
	mounting surface
fastening method	screw fixing
 side-by-side mounting 	Yes
height	281 mm
width	160 mm
depth	255 mm
required spacing	
 with side-by-side mounting 	
— forwards	25 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	100 mm
— backwards	0 mm
— upwards	10
	10 mm
— at the side	10 mm 10 mm
— at the side — downwards	
	10 mm
— downwards	10 mm
downwardsfor live parts	10 mm 10 mm
 downwards for live parts forwards 	10 mm 10 mm 100 mm
 downwards for live parts forwards backwards 	10 mm 10 mm 100 mm 0 mm
 downwards for live parts forwards backwards upwards 	10 mm 10 mm 100 mm 0 mm 10 mm
 downwards for live parts forwards backwards upwards downwards 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards backwards downwards at the side Connections/ Terminals type of electrical connection 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals
 downwards for live parts forwards forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts solid or stranded 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (1 2.5 mm ²)
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts 	10 mm 10 mm 100 mm 0 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals

product function mirror contact according to IEC 60947-4-1		947-4-1 Ye	Yes		
protection class IP on the front according to IEC 60529		60529 IP	00; IP20 with box terminal/co	ver	
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front with cover		
Certificates/ approvals					
General Product Appr	oval				Functional Safety/Safety of Ma- chinery
	<u>Confirmation</u>			EAC	<u>Type Examination Cer-</u> tificate
Functional Safety/Safety of Ma- chinery	Declaration of Conformi	ty	Test Certificates		
Type Examination Cer- tificate	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Miscellaneous</u>
other	Dangerous Good				
Confirmation	Transport Information				

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3TC5617-0BK1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5617-0BK1

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0BK1

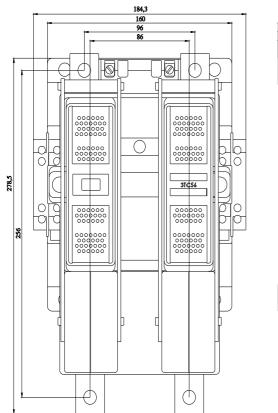
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

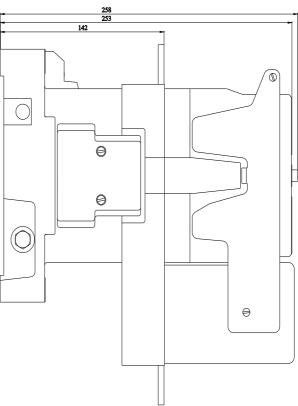
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5617-0BK1&lang=en

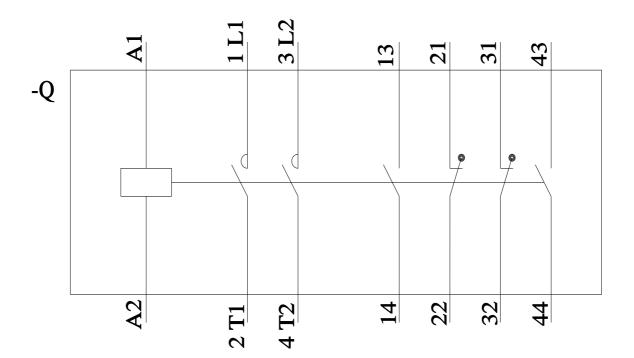
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0BK1/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0BK1&objecttype=14&gridview=view1







2/13/2023 🖸

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