## **SIEMENS**

Data sheet 3TC5617-0AG4



Contactor, size 12, 2-pole, DC-3 and 5, 400 A Auxiliary switch 22 (2 NO + 2 NC) 125V DC DC operation DC operation

product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	12
product extension	
<ul> <li>function module for communication</li> </ul>	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 DC	12g / 5 ms, 5,6g / 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)	03/01/2017
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	220 A
— at 110 V rated value	220 A
— at 220 V rated value	400 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	DC
control supply voltage at DC	
• rated value	125 V
closing power of magnet coil at DC	86 W
holding power of magnet coil at DC	86 W
closing delay at DC	110 400 ms
opening delay at DC	40 110 ms
arcing time	20 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
• instantaneous contact	2
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	22
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 10 A
<ul><li>at 48 V rated value</li><li>at 60 V rated value</li></ul>	
	10 A
• at 60 V rated value	10 A 10 A
<ul><li>at 60 V rated value</li><li>at 110 V rated value</li></ul>	10 A 10 A 8 A
<ul><li>at 60 V rated value</li><li>at 110 V rated value</li><li>at 125 V rated value</li></ul>	10 A 10 A 8 A 6 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	10 A 10 A 8 A 6 A 2 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	10 A 10 A 8 A 6 A 2 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13	10 A 10 A 8 A 6 A 2 A 0.4 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> </ul>	10 A 10 A 8 A 6 A 2 A 0.4 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			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
<ul> <li>— with type of coordination 1 required</li> </ul>	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)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 16 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-22,5° rotation possible on vertical mounting surface; and backward by +/- 22.5° on vertical mounting surface; mounting surface		
fastening method	screw fixing		
side-by-side mounting	Yes		
height	281 mm		
width	160 mm		
depth	314 mm		
required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— forwards	25 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	100 mm		
— backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	100 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection	screw-type terminals		
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
<ul> <li>solid or stranded</li> </ul>	2x (1 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²)		
Safety related data			
product function mirror contact according to IEC 60947-4-1	Yes		
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover		
Certificates/ approvals			
General Product Approval		Functional Safety/Safety of Ma- chinery	



Confirmation







Type Examination Certificate Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Type Examination Certificate





Type Test Certificates/Test Report

**Miscellaneous** 

Special Test Certificate

other Dangerous Good

<u>Confirmation</u> <u>Transport Information</u>

## 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=3TC5617-0AG4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5617-0AG4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0AG4

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

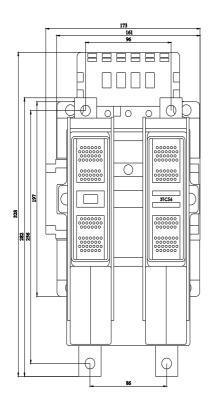
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC5617-0AG4\&lang=en}}$ 

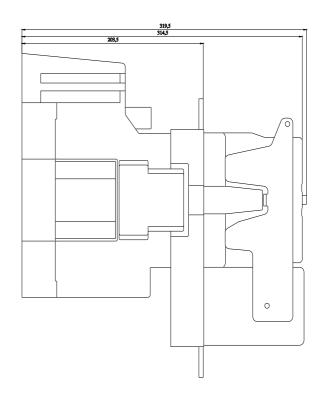
Characteristic: Tripping characteristics, I²t, Let-through current

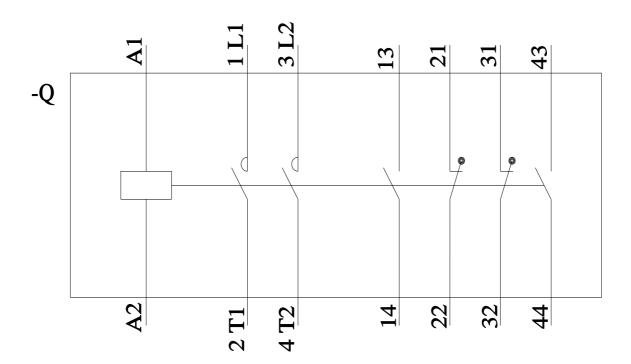
https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0AG4/char

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

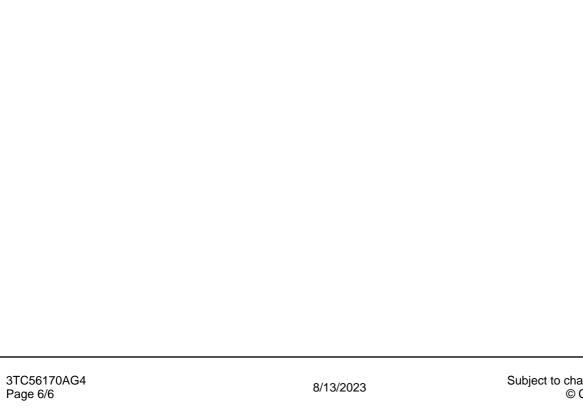
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0AG4&objecttype=14&gridview=view1







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