SIEMENS

Data sheet

3TC5617-0AM4



Contactor, size 12, 2-pole, DC-3 and 5, 400 A Auxiliary switch 22 (2 NO + 2 NC) 220V DC DC operation DC operation

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 DC	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)	03/01/2017
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	DC
control outputs of DC	
control supply voltage at DC	
• rated value	220 V
	220 V 86 W
rated value closing power of magnet coil at DC	
rated value	86 W
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	86 W 86 W
rated value closing power of magnet coil at DC holding power of magnet coil at DC	86 W 86 W 110 400 ms
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC	86 W 86 W 110 400 ms 40 110 ms
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time Auxiliary circuit	86 W 86 W 110 400 ms 40 110 ms
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time	86 W 86 W 110 400 ms 40 110 ms 20 30 ms
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	86 W 86 W 110 400 ms 40 110 ms 20 30 ms 22
rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	86 W 86 W 110 400 ms 40 110 ms 20 30 ms 22 2 2
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	0.4.4		
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 UL/CSA ratings	0.21 A		
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	gG. 10 A (000 V, 1104)		
mounting position	+/-22,5° rotation possible on vertical mounting surface; of	an be tilted forward	
	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			
 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 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts			
— 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			
for auxiliary contacts			
— solid or stranded	2x (1 2.5 mm²)		
 — finely stranded with core end processing 	2x (0.75 1.5 mm ²)		
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 Confirmation	W EHE	<u>Type Examination Cer</u> <u>tificate</u>	

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Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates				
Type Examination Cer- tificate	CE UK EG-Konf. CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>		
other	Dangerous Good					
<u>Confirmation</u>	Transport Information					
Further information Siemens has decided to exit the Russian market (see here).						

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=3TC5617-0AM4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5617-0AM4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0AM4

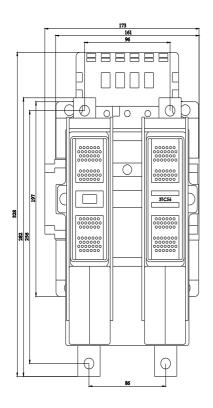
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5617-0AM4&lang=en

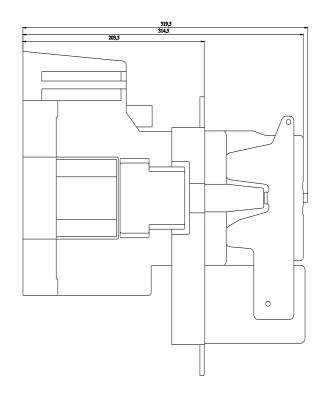
Characteristic: Tripping characteristics, I2t, Let-through current

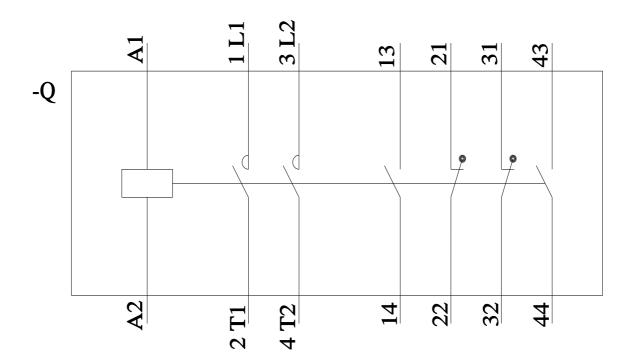
https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0AM4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0AM4&objecttype=14&gridview=view1







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