SIEMENS

Data sheet

3TC5617-0AP4



Contactor size 12, 2-pole DC-3 and 5, 400 A Auxiliary switch 22 (2 NO + 2 NC) Direct current operation 230 V DC

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	
	20	
control supply voltage at DC	230 V	
control supply voltage at DC • rated value	230 V 86 W	
control supply voltage at DC • rated value closing power of magnet coil at DC	86 W	
control supply voltage at DC • rated value closing power of magnet coil at DC holding power of magnet coil at DC	86 W 86 W	
control supply voltage at DC • rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	86 W 86 W 110 400 ms	
control supply voltage at DC • 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	
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- et 110 V reted velve	244	
at 110 V rated value	2.4 A 2.1 A	
at 125 V rated value	1.1 A	
at 220 V rated value		
at 600 V rated value UL/CSA ratings	0.21 A	
contact rating of auxiliary contacts according to UL	A600 / P600	
Short-circuit protection	100071000	
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	ge. 1077 (000 V, 1107)	
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	standing, on horizontal
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 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 CSA	۹. EHC	<u>Type Examination Cer</u> <u>tificate</u>

8/13/2023

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Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates			
<u>Type Examination Cer-</u> tificate	CE UK EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>	
other	Dangerous Good				
Confirmation	Transport Information				
Further information					
Siemens has decided to exit the Russian market (see here). <u>https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business</u> Siemens is working on the renewal of the current FAC certificates					

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=3TC5617-0AP4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5617-0AP4

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

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

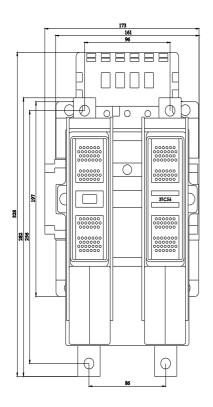
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5617-0AP4&lang=en

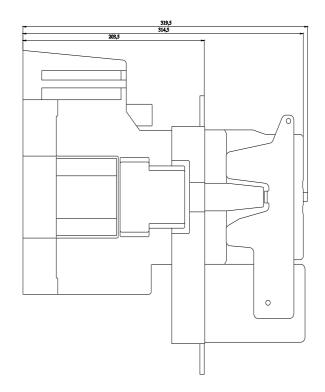
Characteristic: Tripping characteristics, I2t, Let-through current

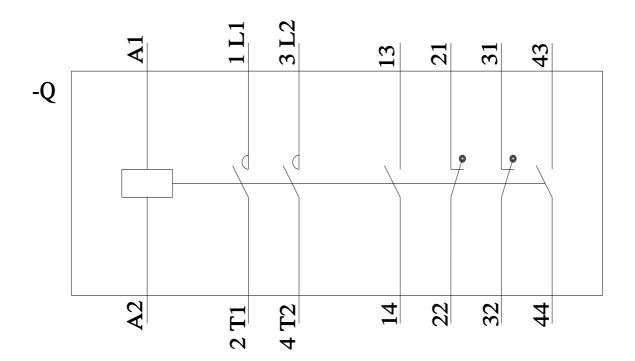
https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0AP4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0AP4&objecttype=14&gridview=view1







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