## **SIEMENS**

Data sheet 3TC5617-0BU0



Contactor, size 12, 2-pole, DC-3 and 5, 400 A Auxiliary switch 22 (2 NO + 2 NC) 240 V AC 50 Hz/288 V AC 60 Hz AC operation AC 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 AC	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)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	14.785 kg
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
• 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	250 KW
at DC-1 maximum	1 000 1/h
	600 1/h
• at DC-3 maximum	
at DC-5 maximum  Control circuit/ Control	600 1/h
type of voltage of the control supply voltage	AC
type of voltage of the control supply voltage control supply voltage at AC	
type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz rated value	240 V
type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value	
type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value operating range factor control supply voltage rated value of	240 V
type of voltage of the control supply voltage 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	240 V 288 V
type of voltage of the control supply voltage  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 50 Hz	240 V 288 V 0.8 1.1
type of voltage of the control supply voltage 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 50 Hz  apparent pick-up power of magnet coil at AC	240 V 288 V 0.8 1.1 1 780 VA
type of voltage of the control supply voltage  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 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz	240 V 288 V 0.8 1.1 1 780 VA 1 780 VA
type of voltage of the control supply voltage  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 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz	240 V 288 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA
type of voltage of the control supply voltage  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 50 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	240 V 288 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3
type of voltage of the control supply voltage  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 50 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	240 V 288 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3
type of voltage of the control supply voltage  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 50 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	240 V 288 V 0.8 1.1 1 780 VA 1 780 VA 2 140 VA 0.3 0.3 0.3
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type of voltage of the control supply voltage  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 50 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  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	240 V 288 V  0.8 1.1 1780 VA 1780 VA 2 140 VA 0.3 0.3 0.3 121 VA 121 VA 140 VA 0.22 0.22 0.29
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type of voltage of the control supply voltage  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 50 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  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 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 holding power of the coil  • at 50 Hz  • at 60 Hz	240 V 288 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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type of voltage of the control supply voltage  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 50 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  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  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with clo	240 V 288 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
type of voltage of the control supply voltage  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 50 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  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 holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 Hz  inductive power factor with the holding power of the coil  at 50 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 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 closing power of the coil  at 60 Hz	240 V 288 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
type of voltage of the control supply voltage  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 50 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  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  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with the holding power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with closing power of the coil  inductive power factor with clo	240 V 288 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

<ul> <li>at 400 V rated value</li> </ul>	3.6 A
at 500 V rated value	2.5 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	10 A
<ul> <li>at 60 V rated value</li> </ul>	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	7.000 / 1 000
design of the fuse link	
for short-circuit protection of the main circuit	0. 0NE4000 4D (04E A)
— 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
fastening method	screw fixing
	281 mm
height	160 mm
width	
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
<ul> <li>for grounded parts</li> </ul>	
— 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 terminal
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	2v /1 2 5 mm²\
	ZX ( 1 Z.5 IIIII <sup>-</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²) 2x (0.75 1.5 mm²)
— finely stranded with core end processing Safety related data	2x (1 2.5 mm²) 2x (0.75 1.5 mm²)

product function mirror contact according to IEC 60947-4-1	Yes
Electrical Safety	
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
Approvals Certificates	

## **General Product Approval**







Confirmation





General	Product Ap-
nroval	

**Functional Saftey** 

**Test Certificates** 



tificate

Type Examination Certificate

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

**Miscellaneous** 

Type Test Certificates/Test Report

other

**Dangerous goods** 

**Environment** 

Confirmation

**Transport Information** 

**Environmental Con**firmations

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=3TC5617-0BU0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3TC5617-0BU0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0BU0

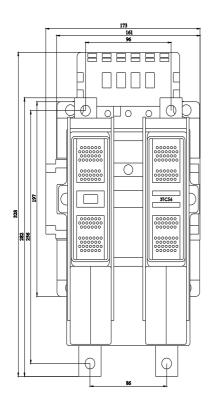
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

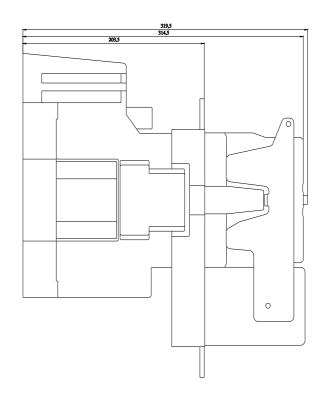
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC5617-0BU0&lang=en

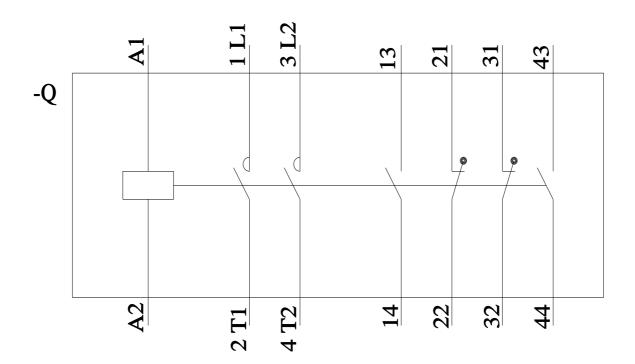
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0BU0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0BU0&objecttype=14&gridview=view1







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