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
SVHC substance name	Lead - 7439-92-1
Weight	23.1 kg
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	200 (1)
• at DC-1 maximum	1 000 1/h
• at DC-3 maximum	600 1/h
at DC-5 maximum at DC-5 maximum	600 1/h
	000 1/11
Control circuit/ Control	
Control circuit/ Control type of voltage of the control supply voltage	DC
type of voltage of the control supply voltage	DC 220 V
type of voltage of the control supply voltage control supply voltage at DC rated value	220 V
type of voltage of the control supply voltage control supply voltage at DC rated value closing power of magnet coil at DC	220 V 86 W
type of voltage of the control supply voltage control supply voltage at DC rated value closing power of magnet coil at DC holding power of magnet coil at DC	220 V 86 W 86 W
type of voltage of the control supply voltage 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	220 V 86 W 86 W 110 400 ms
type of voltage of the control supply voltage 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	220 V 86 W 86 W 110 400 ms 40 110 ms
type of voltage of the control supply voltage 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 arcing time	220 V 86 W 86 W 110 400 ms
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 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	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 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 switching elements	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 2 2 2 2 2 2
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 10 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 10 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operational current at DC-12	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operational current at DC-12 • at 24 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A
type of voltage of the control supply voltage 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 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 switching elements operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A 6 A
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A 6 A 2 A
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A 6 A
type of voltage of the control supply voltage 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 opening delay at DC arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A 6 A 2 A 0.4 A
type of voltage of the control supply voltage 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	220 V 86 W 86 W 110 400 ms 40 110 ms 20 30 ms 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A 10 A 8 A 6 A 2 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	go. 1071 (000 V, 110 V)
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward
mounting position	and backward by +/- 22.5° on vertical mounting surface
fastening method	screw fixing
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 terminal
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	Solon type terrimidis
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
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	
	1.116



Confirmation









General Product Approval

Functional Saftey

Test Certificates



Type Examination Cer-

Miscellaneous

Special Test Certific-

Type Test Certificates/Test Report

other

Dangerous goods

Environment

Confirmation

Transport Information

Environmental Confirmations

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

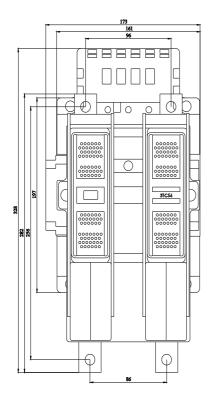
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

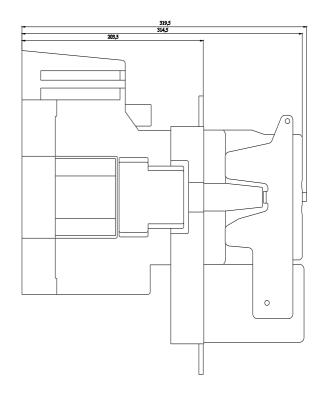
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5617-0AM4&lang=en

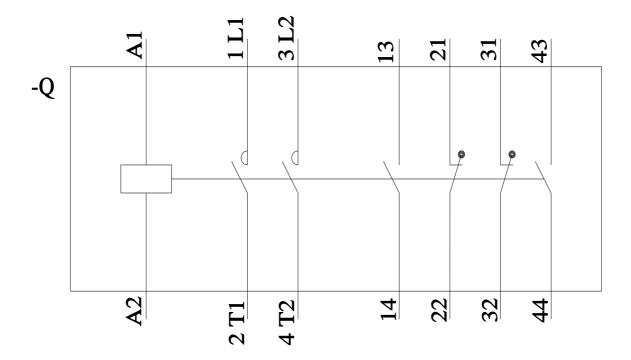
Characteristic: Tripping characteristics, I2t, Let-through current

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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