## **SIEMENS**

Data sheet 3TC5217-0AM4



Contactor, Size 8, 2-pole, DC-3 and 5, 220 A Auxiliary switch 22 (2 NO + 2 NC) 220V DC DC operation

product designation	Contactor	
product type designation	3TC	
General technical data		
size of contactor	8	
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 safe isolation between coil and main contacts according to EN 60947-1	660 V	
shock resistance at rectangular impulse		
at DC	12g / 5 ms, 5,5g / 10 ms	
mechanical service life (switching 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	220 A	
— at 110 V rated value	220 A	
— at 220 V rated value	220 A	
<ul><li>with 2 current paths in series at DC-1</li></ul>		
— at 24 V rated value	220 A	
— at 110 V rated value	220 A	
— at 220 V rated value	220 A	

— at 440 V rated value	220 A
— at 600 V rated value	220 A
— at 750 V rated value	220 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	220 A
<ul><li>with 2 current paths in series 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	220 A
— at 440 V rated value	220 A
— at 600 V rated value	220 A
— at 750 V rated value	170 A
operating power	
• at DC-1	
— at 110 V rated value	24 kW
— at 220 V rated value	48 kW
— at 440 V rated value	97 kW
	165 kW
— at 750 V rated value	TOO KVV
• at DC-3 at DC-5	20 144
— at 110 V rated value	20 kW
— at 220 V rated value	41 kW
— at 440 V rated value	82 kW
— at 600 V rated value	110 kW
— at 750 V rated value	110 kW
operating frequency	
<ul><li>at DC-1 maximum</li></ul>	1 000 1/h
<ul> <li>at DC-3 maximum</li> </ul>	600 1/h
	600 1/h
at DC-5 maximum	000 1/11
at DC-5 maximum  Control circuit/ Control	000 1/11
	DC DC
Control circuit/ Control	
Control circuit/ Control type of voltage of the control supply voltage	
type of voltage of the control supply voltage control supply voltage at DC	DC
type of voltage of the control supply voltage control supply voltage at DC • rated value	DC 220 V
type of voltage of the control supply voltage control supply voltage at DC • rated value closing power of magnet coil at DC	DC 220 V 30 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	DC 220 V 30 W 30 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 opening delay at DC	DC  220 V  30 W  30 W  120 400 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	DC  220 V  30 W  30 W  120 400 ms  22 35 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
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type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms  2  2  2  2  2  2  10 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms  2  2  2  2  2  10 A  5.6 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms  2  2  2  2  2  10 A  5.6 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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	DC  220 V  30 W  30 W  120 400 ms  22 35 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	DC  220 V  30 W  30 W  120 400 ms  22 35 ms  20 30 ms  2  2  2  2  2  10 A  5.6 A  3.6 A  2.5 A  10 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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	DC  220 V  30 W  30 W  120 400 ms  22 35 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  10 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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  10 A  8 A  6 A
type of voltage of the control supply voltage control supply voltage at DC	DC  220 V  30 W  30 W  120 400 ms  22 35 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  10 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
<ul><li>at 110 V rated value</li></ul>	2.4 A
<ul><li>at 125 V rated value</li></ul>	2.1 A
<ul><li>at 220 V rated value</li></ul>	1.1 A
<ul> <li>at 600 V rated value</li> </ul>	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>	3NE1332-4D (400 A) (750 V, 6 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	3NE1332-4D (400 A) (750 V, 6 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; can be tilted
	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
fastening method	screw fixing
side-by-side mounting	Yes
height	240 mm
width	135 mm
depth	236 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	20 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	70 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	70 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	

Functional Safety/Safety of Machinery





Confirmation





Type Examination Certificate

Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 

Type Examination
Certificate



UK Declaration of Conformity

**Miscellaneous** 

Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping

other

**Dangerous Good** 



Confirmation

<u>Transport Information</u>

## **Further information**

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=3TC5217-0AM4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5217-0AM4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AM4

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

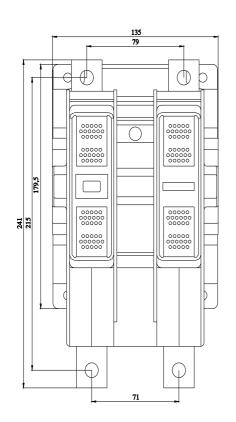
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC5217-0AM4&lang=en

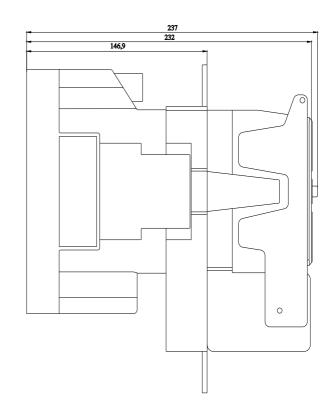
Characteristic: Tripping characteristics, I2t, Let-through current

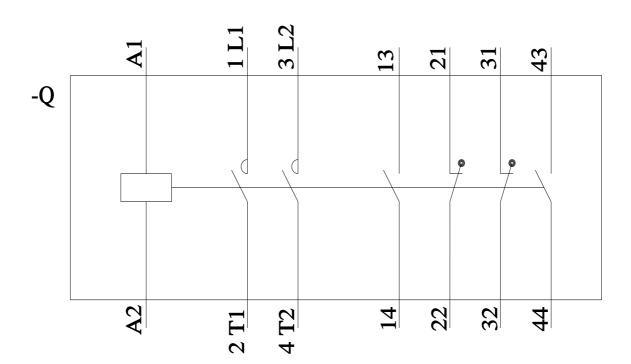
https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AM4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5217-0AM4&objecttype=14&gridview=view1







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