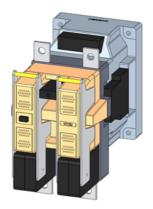
## **SIEMENS**

Data sheet 3TC5217-0AN4



Contactor, Size 8, 2-pole, DC-3 and 5, 220 A Auxiliary switch 22 (2 NO + 2 NC) 250 V 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 acc. 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017
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 acc. 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
	97 kW 165 kW
— at 750 V rated value	103 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
<ul> <li>at DC-5 maximum</li> </ul>	600 1/h
Control circuit/ Control	
Control circuit/ Control type of voltage of the control supply voltage	DC
	DC
type of voltage of the control supply voltage	DC 250 V
type of voltage of the control supply voltage control supply voltage at DC • rated value	
type of voltage of the control supply voltage control supply voltage at DC  • rated value closing power of magnet coil at DC	250 V
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	250 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	250 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	250 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	250 V 30 W 30 W 120 400 ms 22 35 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	250 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	250 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	250 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	250 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  • instantaneous contact  number of NO contacts for auxiliary contacts  • instantaneous contact	250 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 • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact number of CO contacts for auxiliary contacts	250 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 • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact number of CO contacts for auxiliary contacts identification number and letter for switching	250 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  • 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	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
type of voltage of the control supply voltage control supply voltage at DC	250 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	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 2 2 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	250 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  • 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	250 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	250 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	250 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	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 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	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 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	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A
type of voltage of the control supply voltage control supply voltage at DC	250 V 30 W 30 W 120 400 ms 22 35 ms 20 30 ms  2 2 2 2 2 0 22 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	250 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	250 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 2 A
type of voltage of the control supply voltage control supply voltage at DC	250 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

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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
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	
<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</li> </ul>	gG: 16 A (500 V, 1 kA)
required	
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	
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	<u> </u>
	Yes
product function mirror contact acc. to IEC 60947-4-1	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
Certificates/ approvals	
General Product Approval	Functional Safety/Safety of Machinery









Type Examination Certificate Type Examination Certificate

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

UK Declaration of Conformity



**Miscellaneous** 

Special Test Certificate

Type Test Certificates/Test Report



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=3TC5217-0AN4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5217-0AN4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AN4

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

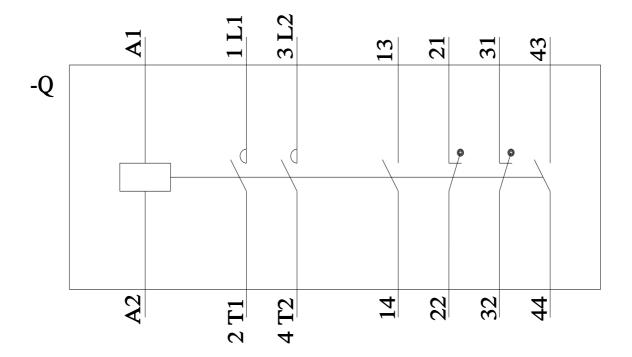
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC5217-0AN4&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AN4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5217-0AN4&objecttype=14&gridview=view1



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