SIEMENS

3TC5217-0BM0 **Data sheet**



Contactor, Size 8, 2-pole, DC-3 and 5, 220 A Auxiliary switch 22 (2 NO + 2 NC) 220 V AC 50 Hz/264 V AC 60 Hz AC operation AC operation

product type designation 3TC General technical data size of contactor 8 product extension • function module for communication No • auxiliary switch Yes	
size of contactor product extension • function module for communication • auxiliary switch 8 No Yes	
product extension	
 function module for communication auxiliary switch No Yes 	
• auxiliary switch Yes	
the state of the s	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
insulation voltage rated value 1 000 V	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	
shock resistance at rectangular impulse	
• at AC 12g / 5 ms, 5,5g / 10 ms	
mechanical service life (switching 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	
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 95 % maximum	
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	
• with 2 current paths in series at DC-1	
— 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	
— at 750 v rated value	220 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	220 A
 with 2 current paths in series 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	220 A
— at 440 V rated value	220 A
	220 A 220 A
— at 600 V rated value	
— 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
— at 750 V rated value	165 kW
• at DC-3 at DC-5	
— 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	110 100
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	AC
control supply voltage at AC	
 at 50 Hz rated value 	220 V
 at 60 Hz rated value 	264 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
	640 VA
apparent pick-up power of magnet coil at AC	040 VA
apparent pick-up power of magnet coil at AC	640 VA
• at 50 Hz • at 60 Hz	640 VA
• at 50 Hz	640 VA 730 VA 0.48
 at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz 	640 VA 730 VA 0.48 0.48
 at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz 	640 VA 730 VA 0.48 0.48 0.38
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA
 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23
 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 50 Hz at 60 Hz 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23
 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 at 60 Hz at 60 Hz 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23
 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 at 60 Hz arcing time Auxiliary circuit	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
 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 at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
 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 at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
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 at 60 Hz at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz 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	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
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 at 60 Hz at 60 Hz 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	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz 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	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz 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	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.24 20 30 ms
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 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 at 60 Hz 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	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
 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 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms
 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 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 	640 VA 730 VA 0.48 0.48 0.38 46 VA 46 VA 56 VA 0.23 0.23 0.24 20 30 ms

1041/	40.4
at 24 V rated value	10 A
at 48 V rated value	10 A
at 60 V rated value	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	40.4
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 at 125 V rated value	2.4 A
 at 125 V rated value at 220 V rated value 	2.1 A 1.1 A
at 600 V rated value	0.21 A
	0.21 A
UL/CSA ratings	A000 / P000
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	3NE1332-4D (400 A) (750 V, 6 kA)
— with type of assignment 2 required	3NE1332-4D (400 A) (750 V, 6 kA)
for short-circuit protection of the auxiliary switch required.	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	204 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— 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	0 (4 0 5 2)
— 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-	Yes
1	

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with cover

Certificates/ approvals

General Product Approval

Functional Safety/Safety of Machinery





Confirmation





Type Examination Certificate

Functional	
Safety/Safety of	f
Machinery	

Declaration of Conformity

Test Certificates

Type Examination Certificate





Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping

other

Railway

Dangerous Good



Confirmation

Confirmation

Transport Information

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=3TC5217-0BM0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5217-0BM0

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0BM0

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

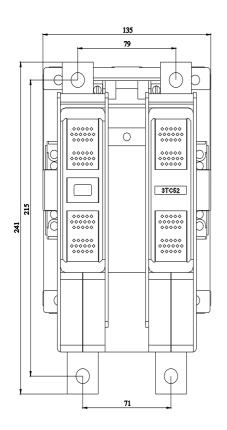
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5217-0BM0&lang=en

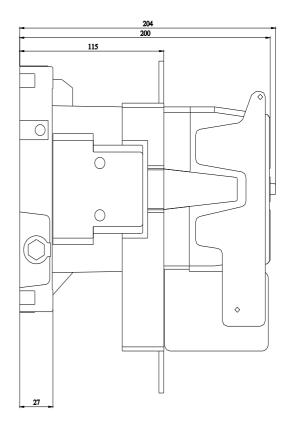
Characteristic: Tripping characteristics, I2t, Let-through current

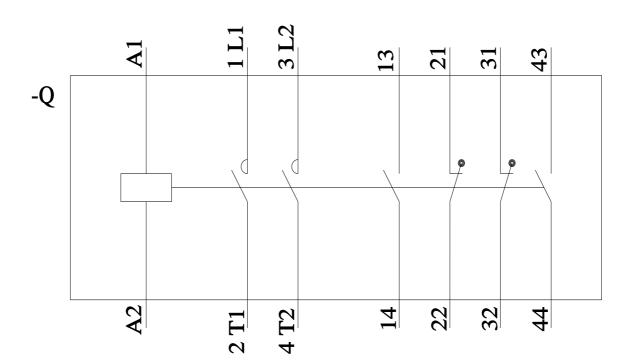
https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0BM0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5217-0BM0&objecttype=14&gridview=view1







last modified: 12/2/2021 🖸