## **SIEMENS**

Data sheet 3TC4817-0AM4



Contactor, Size 4, 2-pole, DC-3 and 5, 75 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	4	
product extension		
<ul> <li>function module for communication</li> </ul>	No	
auxiliary switch	Yes	
insulation voltage rated value	800 V	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	300 V	
shock resistance at rectangular impulse		
• at DC	10g / 5 ms, 5g / 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)	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	75 A	
— at 110 V rated value	75 A	
— at 220 V rated value	75 A	
<ul> <li>with 2 current paths in series at DC-1</li> </ul>		
— at 24 V rated value	75 A	
— at 110 V rated value	75 A	
— at 220 V rated value	75 A	
— at 440 V rated value	75 A	
— at 600 V rated value	75 A	

— at 750 V rated value	75 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
<ul><li>with 2 current paths in series at DC-3 at DC-5</li></ul>	
— at 24 V rated value	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
— at 440 V rated value	75 A
— at 600 V rated value	75 A
— at 750 V rated value	75 A
operating power	
• at DC-1	
— at 110 V rated value	8.2 kW
— at 220 V rated value	16.5 kW
— at 440 V rated value	33 kW
— at 750 V rated value	56 kW
• at DC-3 at DC-5	
— at 110 V rated value	6.5 kW
— at 220 V rated value	13 kW
— at 440 V rated value	27 kW
— at 600 V rated value	38 kW
— at 750 V rated value	45 kW
operating frequency	
• 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	20
type of voltage of the control supply voltage	DC
control supply voltage at DC	220.1/
• rated value	220 V
closing power of magnet coil at DC	19 W 19 W
holding power of magnet coil at DC	90 380 ms
closing delay at DC	90 380 ms
opening delay at DC arcing time	20 30 ms
Auxiliary circuit	20 00 1113
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
• instantaneous contact	2
number of CO contacts for auxiliary contacts	0
identification number and letter for switching elements	22
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	5.6 A
• at 400 V rated value	3.6 A
at 500 V rated value	2.5 A
operational current at DC-12	
• 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	3.2 A
at 125 V rated value	2.5 A
• at 220 V rated value	0.9 A
at 600 V rated value	0.22 A
operational current at DC-13	
- at 04 \/ rated value	
at 24 V rated value	10 A
at 48 V rated value     at 48 V rated value	10 A 5 A

at 110 V rated value	1.14 A		
at 125 V rated value	0.98 A		
at 220 V rated value	0.48 A		
at 600 V rated value	0.07 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>	2 x 3NA31 (160 A) in series (750 V, 5 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	2 x 3NA31 (63 A) in series (750 V, 5 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; c and backward by +/- 22.5° on vertical mounting surface; mounting surface		
fastening method	screw fixing		
side-by-side mounting	Yes		
height	177.5 mm		
width	100 mm		
depth	184 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	55 mm		
— backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			
— forwards	55 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		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	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			
General Product Approval		Functional Safety/Safety of Ma- chinery	





Confirmation





Type Examination Certificate Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Type Examination Certificate





**Miscellaneous** 

Special Test Certificate

Type Test Certificates/Test Report

other Dangerous Good

<u>Confirmation</u> <u>Transport Information</u>

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3TC4817-0AM4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4817-0AM4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0AM4

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

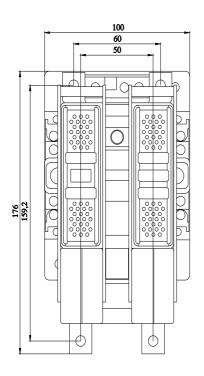
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4817-0AM4\&lang=en}}$ 

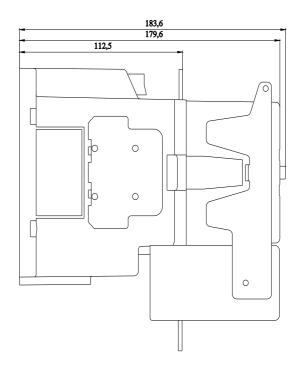
Characteristic: Tripping characteristics, I²t, Let-through current

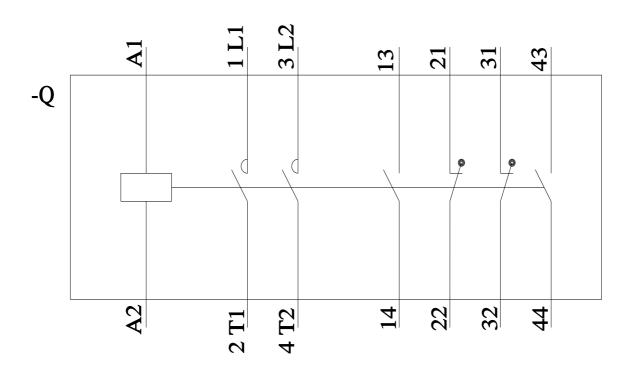
https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0AM4/char

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

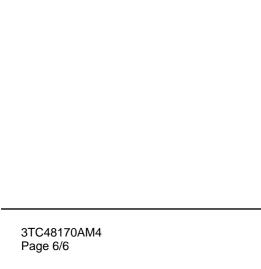
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4817-0AM4&objecttype=14&gridview=view1







last modified: 2/13/2023 🖸



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3TC48170AM4