## SIEMENS

## Data sheet

## 3TC4417-0CF4



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 110V DC DC operation

product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	2
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	7,5g / 5 ms, 3,4g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/01/2012
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
— at 440 V rated value	32 A
— at 600 V rated value	32 A

— at 750 V rated value	
	32 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
— at 440 V rated value	29 A
— at 600 V rated value	21 A
— at 750 V rated value	7.5 A
operating power	
• at DC-1	
— at 110 V rated value	3.5 kW
— at 220 V rated value	7 kW
— at 440 V rated value	14 kW
- at 750 V rated value	24 kW
• at DC-3 at DC-5	25100
— at 110 V rated value	2.5 kW
— at 220 V rated value	5 kW
— at 440 V rated value	9 kW
— at 600 V rated value	9 kW
— at 750 V rated value	4 kW
operating frequency	
• at DC-1 maximum	1 500 1/h
• at DC-3 maximum	750 1/h
• at DC-5 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	110 V
closing power of magnet coil at DC	10 W
holding power of magnet coil at DC	10 W
closing delay at DC	35 190 ms
opening delay at DC	10 25 ms
arcing time	20 30 ms
arcing time Auxiliary circuit	
-	20 30 ms 2
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	2 2
Auxiliary circuit number of NC contacts for auxiliary contacts	2 2 2
Auxiliary circuit          number of NC contacts for auxiliary contacts       •         • instantaneous contact       •         number of NO contacts for auxiliary contacts       •         • instantaneous contact       •	2 2
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       •	2 2 2
Auxiliary circuit          number of NC contacts for auxiliary contacts       •         • instantaneous contact       •         number of NO contacts for auxiliary contacts       •         • instantaneous contact       •	2 2 2 2 2
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	2 2 2 2 2 0
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	2 2 2 2 2 0 22
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	2 2 2 2 2 0 22
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	2 2 2 2 0 22 10 A
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	2 2 2 2 0 22 10 A 5.6 A
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	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A
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 500 V rated value	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A
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 500 V rated value         • at 500 V rated value	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A
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 500 V rated value         • at 500 V rated value         • at 24 V rated value	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A 10 A
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 48 V rated value	2 2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A
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 48 V rated value         • at 48 V rated value         • at 60 V rated value	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A
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 500 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value	2 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 3.2 A
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 500 V rated value         • at 500 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 220 V rated value	2 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 2.5 A
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 48 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value	2 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 10 A 10 A 10 A 10 A
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 500 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 250 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 20 V rated value         • at 20 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	2 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 10 A 10 A 10 A 10 A
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 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value	2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A
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 48 V rated value         • at 400 V rated value         • at 220 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value	2 2 2 2 2 0 22 10 A 5.6 A 3.6 A 2.5 A 10 A

Functional
s for the right and left
rding to DIN EN 50022
; standing, on horizontal
can be tilted forward
_
_

(Sfr	<u>Confirmation</u>			EAC	<u>Type Examination Cer-</u> tificate
Functional Safety/Safety of Ma- chinery	Declaration of Conformity		Test Certificates		
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	<u>Miscellaneous</u>
other	Dangerous Good				
<u>Confirmation</u>	Transport 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=3TC4417-0CF4	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0CF4	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0CF4	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	

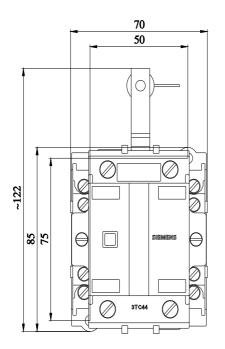
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4417-0CF4&lang=en

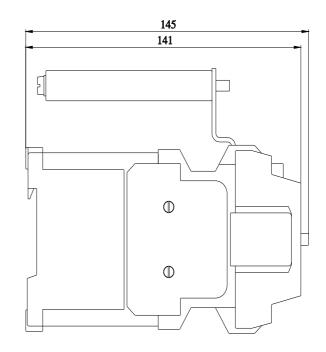
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

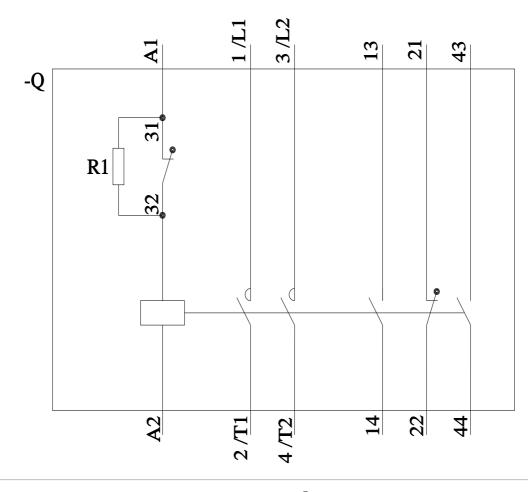
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0CF4/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0CF4&objecttype=14&gridview=view1

Further information







last modified:

8/11/2023 🖸

## **Mouser Electronics**

Authorized Distributor

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

Siemens: 3TC44170CF4