## **SIEMENS**

Data sheet 3TC4417-0AB4-Z B01

	Contactor size 2, 2-pole DC-3 and 5, 32 A Auxiliary switch 22 (2 NO + 2 NC) Direct current operation 24 V DC upright mounting position
product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	2
product extension	
function module for communication	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)	
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	Q
Substance Prohibitance (Date)	02/01/2012
SVHC substance name	Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
Weight	1.06 kg
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	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
with 2 current paths in series at DC-1	00.4
— 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
• at DC-3 at DC-5	22 A
— at 220 V rated value	32 A
— at 600 V rated value	21 A
— at 750 V rated value	7.5 A
at 1 current path at DC-3 at DC-5     at 24 \text{\tinx}\text{\ti}\text{\texi{\text{\texi\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\	22 A
— 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	
— 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	24 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
opening delay at DC arcing time	10 25 ms 20 30 ms
arcing time	
arcing time Auxiliary circuit	20 30 ms
arcing time  Auxiliary circuit  number of NC contacts for auxiliary contacts  • instantaneous contact	20 30 ms  2 2
arcing time Auxiliary circuit number of NC contacts for auxiliary contacts	20 30 ms
arcing time  Auxiliary circuit  number of NC contacts for auxiliary contacts  • instantaneous contact  number of NO contacts for auxiliary contacts  • instantaneous contact	20 30 ms  2 2 2
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	20 30 ms  2 2 2 2 2
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	20 30 ms  2 2 2 2 2 0
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	20 30 ms  2 2 2 2 2 0 22
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	20 30 ms  2 2 2 2 2 0 22 10 A
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	20 30 ms  2 2 2 2 2 0 22 10 A
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	20 30 ms  2 2 2 2 2 0 22 10 A  5.6 A 3.6 A
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  • at 500 V rated value	20 30 ms  2 2 2 2 2 0 22 10 A
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	20 30 ms  2 2 2 2 2 0 22 10 A  5.6 A 3.6 A
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  • at 500 V rated value  operational current at DC-12	20 30 ms  2 2 2 2 2 0 22 10 A  5.6 A 3.6 A 2.5 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value	20 30 ms  2 2 2 2 2 0 22 10 A  5.6 A 3.6 A 2.5 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value	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
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value	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 3.2 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 110 V rated value  • at 125 V rated value	20 30 ms  2
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  • at 500 V rated value  operational current at DC-12  • at 24 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  • at 220 V rated value	20 30 ms  2
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 48 V rated value  • at 110 V rated value  • at 125 V rated value  • at 125 V rated value  • at 220 V rated value  • at 600 V rated value  • at 600 V rated value	20 30 ms  2
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  • at 500 V rated value  operational current at DC-12  • at 24 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  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value	20 30 ms  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 3.2 A 2.5 A 0.9 A 0.22 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 110 V rated value  • at 125 V rated value  • at 220 V rated value  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value  • at 24 V rated value  • at 220 V rated value  • at 24 V rated value  • at 24 V rated value	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 3.2 A 2.5 A 0.9 A 0.22 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 110 V rated value  • at 125 V rated value  • at 220 V rated value  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value  • at 24 V rated value	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 3.2 A 2.5 A 0.9 A 0.22 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 110 V rated value  • at 125 V rated value  • at 125 V rated value  • at 220 V rated value  • at 220 V rated value  • at 240 V rated value  • at 600 V rated value  • at 600 V rated value  • at 48 V rated value  • at 60 V rated value	20 30 ms  2 2 2 2 0 22 10 A  5.6 A 3.6 A 2.5 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 220 V rated value  • at 220 V rated value  • at 240 V rated value  • at 600 V rated value  • at 48 V rated value	20 30 ms  2 2 2 2 2 0 0 22 10 A  5.6 A 3.6 A 2.5 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 5 A 5 A 1.14 A
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  at 500 V rated value  at 24 V rated value  at 24 V rated value  at 48 V rated value  at 110 V rated value  at 125 V rated value  at 600 V rated value	20 30 ms  2 2 2 2 2 0 0 22 10 A  5.6 A 3.6 A 2.5 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 5 A 5 A 1.14 A 0.98 A
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  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 220 V rated value  • at 220 V rated value  • at 240 V rated value  • at 600 V rated value  • at 48 V rated value	20 30 ms  2 2 2 2 2 0 0 22 10 A  5.6 A 3.6 A 2.5 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 5 A 5 A 1.14 A

A600 / P600
2 x 3NA3020 (50 A) in series (750 V, 3 kA)
2 x 3NA3020 (50 A) in series (750 V, 3 kA)
gG: 16 A (500 V, 1 kA)
standing, on horizontal mounting surface
Yes
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
85 mm
70 mm
145 mm
15 mm
0 mm
10 mm
10 mm
10 mm
10
30 mm
0 mm
10 mm
10 mm
10 mm
10 11111
30 mm
0 mm
10 mm
10 mm
10 mm
10 11111
screw terminal
screw-type terminals
screw-type terminals screw-type terminals
Solow-type terrimas
2v (2.5 10 mm²)
2x (2,5 10 mm²)
2x (1.5 4 mm²)
0v /4
2x (1 2.5 mm²)
2x (0.75 1.5 mm²)
V 0 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively
IP00



Confirmation









Functional Saftey	Test Certificates	other
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**Dangerous goods** Environment

**Transport Information Environmental Con-**

**firmations** 

## Further information

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=3TC4417-0AB4-Z B01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0AB4-Z B01

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0AB4-Z B01

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

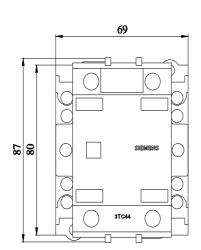
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4417-0AB4-Z B01&lang=en

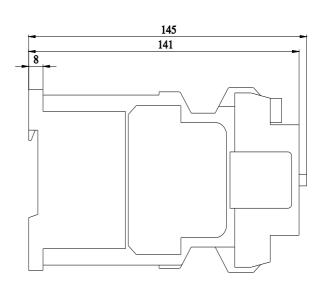
Characteristic: Tripping characteristics, I2t, Let-through current

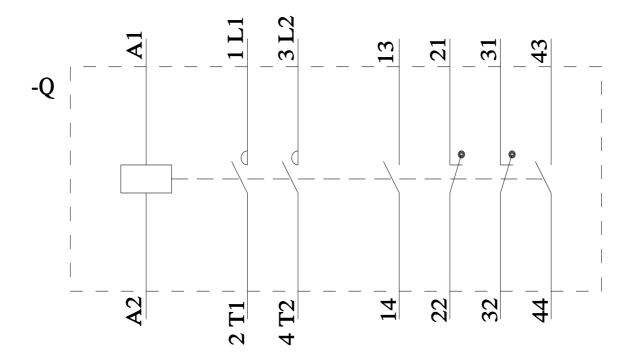
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0AB4-Z B01/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0AB4-Z B01&objecttype=14&gridview=view1







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