SIEMENS

Data sheet 3TC4417-0BL0



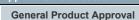
Contactor size 2, 2-pole DC-3 and 5, 32 A Auxiliary switch 22 (2 NO + 2 NC) Alternating current operation 125, 127 V AC 50 Hz 150, 152 V AC 60 Hz

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 AC	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	0.692 kg				
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 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					
— 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	
— 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 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-3 at DC-5	
— 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 7.5 A
— at 750 V rated value	1.5 \
operating power	
• at DC-1	2.5 IAM
— 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	AC
control supply voltage at AC	
at 50 Hz rated value	125 V
at 60 Hz rated value	152 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	68 VA
● at 50 Hz	68 VA
• at 60 Hz	95 VA
inductive power factor with closing power of the coil	0.86
• at 50 Hz	0.86
● at 60 Hz	0.79
apparent holding power of magnet coil at AC	10 VA
● at 50 Hz	10 VA
• at 60 Hz	12 VA
inductive power factor with the holding power of the coil	0.29
● at 50 Hz	0.29
● at 60 Hz	0.3
arcing time	20 30 ms
Auxiliary circuit	
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	10 A		
at 230 V rated value	5.6 A		
at 400 V rated value	3.6 A		
at 500 V rated value at 500 V rated value	2.5 A		
operational current at DC-12	2.07		
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			
at 123 V rated value at 220 V rated value	2.5 A 0.9 A		
at 600 V rated value	0.9 A 0.22 A		
operational current at DC-13	0.22 A		
• at 24 V rated value	10 A		
at 24 V rated value at 48 V rated value	5 A		
at 48 V rated value at 60 V rated value	5 A		
at 50 V rated value at 110 V rated value	1.14 A		
at 125 V rated value at 125 V rated value	0.98 A		
at 125 V rated value at 220 V rated value	0.48 A		
at 220 v rated value at 600 V rated value	0.48 A 0.07 A		
UL/CSA ratings	0.01 A		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection	A0007F000		
design of the fuse link • for short-circuit protection of the main circuit			
with type of coordination 1 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA)		
with type of coordination is required - with type of assignment 2 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA) 2 x 3NA3020 (50 A) in series (750 V, 3 kA)		
for short-circuit protection of the auxiliary switch required	gG: 16 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	gg. 10 A (300 V, 1 kA)		
mounting position	+/-22 5° rotation possible on vertical mounting surface; can be tilted forward		
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
mounting position fastening method side-by-side mounting			
	and backward by +/- 22.5° on vertical mounting surface		
fastening method side-by-side mounting	and backward by +/- 22.5° on vertical mounting surface Yes		
fastening method side-by-side mounting fastening method	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022		
fastening method side-by-side mounting fastening method height	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm		
fastening method side-by-side mounting fastening method height width	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm		
fastening method side-by-side mounting fastening method height width depth	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm		
fastening method side-by-side mounting fastening method height width depth required spacing	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm		
fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm 104 mm		
fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm 104 mm		
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fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm 10 mm		
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fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — backwards — upwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — upwards — at the side — downwards • for live parts	and backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm		
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 for auxiliary and control circuit 	screw-type terminals		
type of connectable conductor cross-sections for main contacts			
 solid or stranded 	2x (2,5 10 mm²)		
finely stranded with core end processing	2x (1.5 4 mm²)		
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			
product function mirror contact according to IEC 60947-4-1	Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP00		
Approvals Certificates			
0 10 1 (4 1			









Confirmation





Functional Saftey		Test Certificates			other
Type Examination Cer- tificate	Type Examination Cer- tificate	Miscellaneous	Special Test Certific- ate	Type Test Certificates/Test Report	Confirmation

Environment **Dangerous goods**

Transport Information

Environmental Confirmations

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=3TC4417-0BL0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BL0

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BL0

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

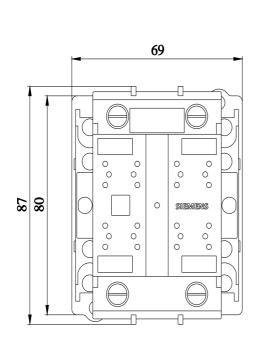
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BL0&lang=en

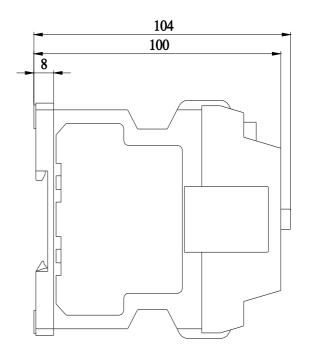
Characteristic: Tripping characteristics, I2t, Let-through current

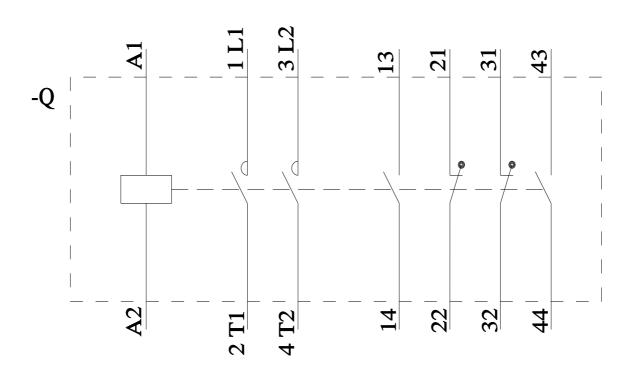
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BL0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BL0&objecttype=14&gridview=view1







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