SIEMENS

Data sheet

3TC4417-0BF0



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 110V AC 50Hz/132V AC 60Hz AC operation

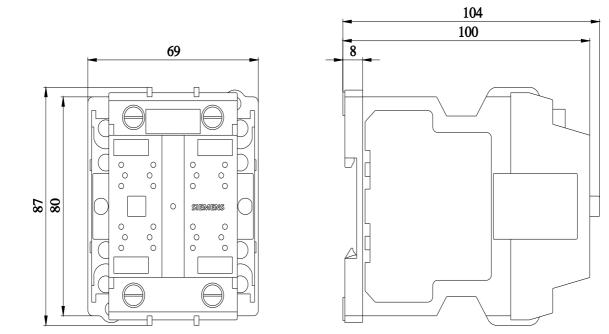
12			
product designation	Contactor		
product type designation	3TC		
General technical data			
size of contactor	2		
product extension			
 function module for communication 	No		
 auxiliary switch 	Yes		
insulation voltage rated value	800 V		
maximum permissible voltage for protective separation between 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	Blei - 7439-92-1 6,6'-Di-tert-butyl-2,2'-methylendi-p-cre - 119-47-1		
Ambient conditions			
ambient temperature			
during operation	-25 +55 °C		
during operation during storage	-25 +55 °C -50 +80 °C		
during storage	-50 +80 °C		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30	-50 +80 °C 10 %		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum	-50 +80 °C 10 %		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	-50 +80 °C 10 % 95 %		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles	-50 +80 °C 10 % 95 % 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit	-50 +80 °C 10 % 95 % 2 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts	-50 +80 °C 10 % 95 % 2 2 2 2		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current	-50 +80 °C 10 % 95 % 2 2 2 2 0		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current • at 1 current path at DC-1	-50 +80 °C 10 % 95 % 2 2 2 2 0 DC		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current • at 1 current path at DC-1 — at 24 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC 32 A 32 A		
during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value	-50 +80 °C 10 % 95 % 2 2 2 2 0 0 DC 32 A 32 A		
• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value • with 2 current paths in series at DC-1	-50 +80 °C 10 % 95 % 2 2 2 2 0 DC 32 A 32 A 32 A		

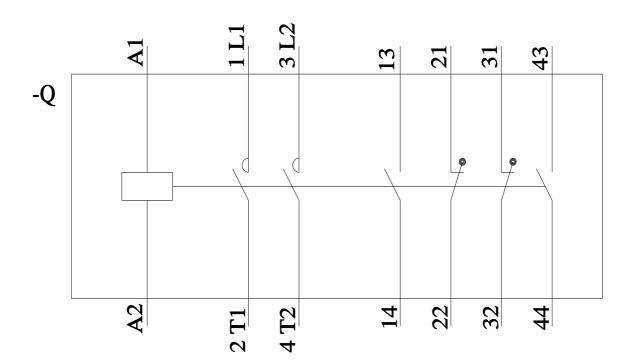
# 1400 V rates value 32 A # 1700 V rates value 32 A # 124 V rates value 32 A # 122 V rates value 32 A # 120 V rates value 32 A # 110 V rates value 35 AW # 120 V rates value 7 A # 110 V rates value 35 AW # 110 V rates value 35 AW		00.4
	— at 440 V rated value	32 A
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 af 24 V relat value 26 A af 10 V relat value 26 A af 22 V relat value 27 A af 24 V relat value 28 A af 11 V rate value 28 A af 24 V relat value 29 A af 24 V relat value 29 A af 24 V relat value 29 A af 20 V relat value 28 A af 20 V relat value 28 A af 20 V relat value 29 A af 20 V relat value 25 KW af 20 V relat value 26 KW af 20 V relat value 27 KW af 20 V relat value 40 KC relative 40 KC relative		32 A
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	— at 24 V rated value	32 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value32 A- at 250 V rated value32 A- at 250 V rated value32 A- at 250 V rated value23 A- at 250 V rated value21 A- at 700 V rated value21 A- at 700 V rated value7.5 Aopparting power3.5 kW- at 700 V rated value3.5 kW- at 250 V rated value3.5 kW- at 250 V rated value3.5 kW- at 250 V rated value4 kW- at 250 V rated value2.6 kW- at 250 V rated value2.6 kW- at 250 V rated value2.6 kW- at 210 V rated value2.6 kW- at 200 V rated value9.6 kW- at 200 V rated value9.6 kW- at 210 V rated value10.0 t/n• at 50 - 10 kamerin750 t/n• at 50 - 10 kamerin750 t/n• at 50 - 10 kamerin10.0 V• at 50 - 10 kamerin10.0 V• at 50 - 12 kamerin9.6 kA• at 50 - 12 kamerin <td>— at 110 V rated value</td> <td>32 A</td>	— 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 220 V rited value 23 A at 460 V rited value 21 A at 750 V rited value 7.5 A 7.6 A	— at 24 V rated value	32 A
	— at 110 V rated value	32 A
- at 260 V relies value 7.8 A operating power 7.8 A - at 750 V relies value 7.8 V - at 110 V roles value 3.5 KW - at 220 V roles value 7.8 V - at 220 V roles value 24 KW - at 750 V rated value 24 KW - at 220 V roles value 24 KW - at 750 V rated value 9 KW - at 220 V roles value 9 KW - at 750 V rated value 750 th - at 150 V rated value 150 th - at 10 V rated value 150 th - at 1	— at 220 V rated value	32 A
−al 750 V rated value 7.5 Å operating power at 100 V rated value - at 110 V rated value 3.5 kW - at 440 V rated value 14 kW - at 440 V rated value 14 kW - at 750 V rated value 24 kW - at 100 V rated value 25 kW - at 100 V rated value 5 kW - at 20 V rated value 5 kW - at 440 V rated value 9 kW - at 450 V rated value 9 kW - at 750 V rated value 9 kW - at 50 V rated value 9 kW - at 50 V rated value 1500 1/h • at 50 V rated value 120 V oparating range factor control supply voltage rated value of magnet coll at AC 08 kL • at 50 V rated value 132 V opparating range factor control supply voltage rated value of magnet coll at AC 60 kL • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 • at 60 Hz 10 VA <tr< td=""><td>— at 440 V rated value</td><td>29 A</td></tr<>	— at 440 V rated value	29 A
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	• at DC-1	
	— at 110 V rated value	3.5 kW
		7 kW
• at DC-3 at DC-5 2.5 kW - at 110 V rated value 2.5 kW - at 240 V rated value 9 kW - at 400 V rated value 9 kW - at 500 V rated value 9 kW - at DC-1 maximum 9 kW - at DC-1 maximum 1 500 1/h • at DC-5 maximum 750 1/		
		2.5 kW
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• 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 • at DC-4 maximum AC control supply voltage at AC 110 V • at 60 Hz rated value 110 V • at 50 Hz 0.8 1.1 apparent pick-up power of magnet coil at AC 68 VA • at 50 Hz 0.8 VA • at 60 Hz 68 VA • at 60 Hz 0.8 VA • at 60 Hz 0.79 apparent holding power of magnet coil at AC 10 VA • at 60 Hz 0.29 • at 60 Hz 0.29 • at 60 Hz 0.29 • at 60 Hz 0.3 arcing time 2030 ms Auxiliary circuit 2 number of NC contacts for auxi		4 KVV
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• 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 110 V • at 60 Hz rated value 132 V operating range factor control supply voltage rated value of magnet coil at AC 68 VA • at 50 Hz 0.8 1.1 apparent pick-up power of magnet coil at AC 68 VA • at 50 Hz 0.8 VA • at 60 Hz 0.86 • at 60 Hz 0.79 apparent holding power of magnet coil at AC 10 VA • at 60 Hz 0.79 apparent holding power of magnet coil at AC 10 VA • at 60 Hz 0.79 apparent holding power of magnet coil at AC 10 VA • at 60 Hz 0.29 • at 60 Hz 0.29 • at 60 Hz 0.3 arcing time 20 30 ms Auxillary circuit 2 number of NC contacts for auxiliary contacts 2 • instantaneous contact		
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• at 50 Hz rated value 110 V • at 60 Hz rated value 132 V operating range factor control supply voltage rated value of magnet coil at AC 68 VA • at 50 Hz 0.8 1.1 apparent pick-up power of magnet coil at AC 68 VA • at 50 Hz 68 VA • at 50 Hz 95 VA inductive power factor with closing power of the coil 0.86 • at 50 Hz 0.79 apparent holding power of magnet coil at AC 10 VA • at 50 Hz 0.29 • at 60 Hz 0.29 • at 60 Hz 0.3 arcing time 20 30 ms Auxiliary circuit 2 number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • instantaneous contact 2 • instantaneous contact 2		AC
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identification number and letter for switching elements 22 operational current at AC-12 maximum 10 A operational current at AC-15 10 A	 at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC 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 at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil 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 	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms
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at 230 V rated value 5.6 A	 at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC 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 at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 6	132 V 0.8 1.1 68 VA 68 VA 95 VA 0.86 0.86 0.79 10 VA 10 VA 10 VA 12 VA 0.29 0.29 0.3 20 30 ms 2 2 2 2 2 2 2 2 2 2
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 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 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	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	
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 assignment 2 required	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	go. 10 A (000 V, 1 M)
	1/ 22 5° ratation passible on vartical mounting surfaces 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; standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
 side-by-side mounting 	Yes
height	85 mm
width	70 mm
depth	104 mm
required spacing	
 with side-by-side mounting 	
— forwards	15 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	30 mm
— backwards	0 mm
— upwards	10 mm
	TOTIIII
— at the side	10 mm
— at the side — downwards	
— downwards	10 mm
	10 mm
 downwards for live parts forwards 	10 mm 10 mm
 downwards for live parts forwards backwards 	10 mm 10 mm 30 mm 0 mm
 downwards for live parts forwards backwards upwards 	10 mm 10 mm 30 mm 0 mm 10 mm
 downwards for live parts forwards backwards upwards downwards 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side 	10 mm 10 mm 30 mm 0 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 20 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals
 downwards for live parts forwards backwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 20 mm

type of connectable co	onductor cross-sections				
 for auxiliary containing 	acts				
— solid or stranded		2x (1 2.5 mm²)			
— finely stranded with core end processing		2x (0.75 1.5 mm²)			
afety 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			
protection class IP on the front according to IEC 60529		60529	IP00		
ertificates/ approvals					
General Product Appr	oval				Functional Safety/Safety of Ma chinery
	<u>Confirmation</u>		U	EHC	<u>Type Examination Ce</u> <u>tificate</u>
Functional Safety/Safety of Ma- chinery	Declaration of Conformi	ity	Test Certificates		
Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
other	Dangerous Good				
Confirmation	Transport Information				

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