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

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 safe isolation 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
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 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
— 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	AC
	AC
control supply voltage at AC	110.1/
at 50 Hz rated value at 60 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	
• 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 10 VA
• at 50 Hz	
• 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	25 55 116
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
-t 400 \ /td	0.0.4
 at 400 V rated value 	3.6 A
at 400 V rated valueat 500 V rated value	3.6 A 2.5 A

and a Varied value bit of Varied value control of Var		
** at 10 V rated value		
a 11 10 V tated value		
and 128 V rated value		
• at 220 V rated value • at 300 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at		
a th 200 V rated value operational current at DC-13 a 24 V rated value a 24 A rated value b 6 A 8 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9		
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 225 V rated value • at 220 V rated va		
a d2 4V rated value b d8 6V vated value c at 10 V rated value c at 10 V rated value d at 10 V rated value c at 220 V rated value d at 220 V rated value UCSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link design	 at 600 V rated value 	0.22 A
at 48 V rated value at 10 V rated value 1.14 A at 125 V rated value 2.12 V rated value 3.12 S V rated value 3.15 S V rated value 3.15 S V rated value 3.16 S V rated value 3.17 S V rated value 3.18 V rated value 3.	operational current at DC-13	
at 60 V rated value at 125 V rated value 0.08 A 0.08 A 0.08 A 0.07 A ULCSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link - with type of coordination 1 required - with type of connectable conductor cross-sections - with type of coordination 1 required - with type of coordination 1 required - with type of connectable conductor cross-sections - with type of connectable conductor cross-sections - with type of connectable conductor cross-sections - with type of connectable conductor cross-section	 at 24 V rated value 	10 A
at 110 V rated value at 125 V rated value at 220 V rated value 0.08 A at 500 V rated value 0.07 A buckstraings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of condination 1 required with type of assignment 2 required with type of assignment 2 required a for short-circuit protection of the auxiliary switch required with type of assignment 2 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required forwards and salvers of the state of the st	 at 48 V rated value 	5 A
at 125 V rated value at 600 V rated value but 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link brot-circuit protection of the main circuit with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the switch auxiliary switch required for short-circuit protection of the main circuit for auxiliary and counting ### Application possible on vertical mounting surface; can be titled forward and backward by +/- 22,5" rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22,5" on vertical mounting surface; can be titled forward and backward short protection	 at 60 V rated value 	5 A
at 200 V rated value 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 of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required Installator mounting/ dimensions mounting position forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted forward and backward by +/- 22.5° on vertical mounting surface, can be tilted	at 110 V rated value	1.14 A
* at 600 V rated value UL/CSA ratings* Contact rating of auxiliary contacts according to UL. Short-circuit protection design of the fuse link - with type of coordination 1 required - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required of for short-circuit protection of the auxiliary switch required of for short-circuit protection of the auxiliary switch required of short-circuit protection of the auxiliary switch of short-circuit protection of the auxiliary and short of short-circuit screw-type terminals of or auxiliary and control circuit of or auxiliary and control circuit of or auxiliary contacts of or ownectable conductor cross-sections of or main contacts of connectable conductor cross-sections of or formain contacts of connectable conductor cross-sections of or formain contacts of connectable conductor cross-sections of or main contacts of connectable conductor cross-sections of connectable conductor cross-sections of connectable conductor cross-sections of connectable conductor cross-sect	 at 125 V rated value 	0.98 A
contact rating of auxiliary contacts according to UL A6007 P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — of ris hort-circuit protection of the auxiliary switch required — with type of assignment 2 required — of ris hort-circuit protection of the auxiliary switch required Installation/mounting/ dimensions mounting position ### 47-22.5" rotation possible on vertical mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; standing, an horzorated mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; standing, an horzorated mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; standing, an horzorated mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; can be tilted forward and backward by #+ 22.5" on vertical mounting surface; can be tilted forward and backwards #+ 25.5" on vertical mounting surface; can be tilted forward and backwards #+ 25.5" on vertical mounting surface; can be tilted forward and packwards #+ 25.5" on vertical mounting surface; can be tilted forward and backwards #+ 25.5" on vertical mounting surface; can be tilted forward and packwards #+ 25.5" on vertical mounting surface; can be tilted forward backwards #+ 25.5" on terical mounting surface; can be tilted forward backwards #+ 25.5" on vertical mounting surface; can be tilted forward backwards #+ 25.5" on vertical mounting surface; can be tilted forward backwards #+ 25.5" on mounting surface; can be tilted forward backwards #+ 25.5" on mounting surface; can be tilted forward backw	 at 220 V rated value 	0.48 A
contact rating of auxillary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit - with type of contination 1 required - with type of assignment 2 required of reshort-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position ***C2,5** rotation possible on vertical mounting surface; can be tilted forward and backward by ++ 22,5** on vertical mounting surface; standing, on horizontal mounting surface; standin	 at 600 V rated value 	0.07 A
Short-circuit protection design of the fuse link 6 or short-circuit protection of the main circuit with type of coordination 1 required 2 x 3NA3020 (50 A) in series (750 V, 3 kA) 2 x 3NA3020 (50 A) in series (750 V, 3 kA) 2 x 3NA3020 (50 A) in series (750 V, 3 kA) 3 y 3 y 3 y 3 y 3 y 3 y 3 y 3 y 3 y 3	UL/CSA ratings	
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting position ##-22,5" rotation possible on vertical mounting surface; can be tilted forward and backward by 4-2.2.5" on vertical mounting surface; standing, on horizontal mount	contact rating of auxiliary contacts according to UL	A600 / P600
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting position ##-22,5" rotation possible on vertical mounting surface; can be tilted forward and backward by 4-2.2.5" on vertical mounting surface; standing, on horizontal mount		
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required of the switch of		
- with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation mounting dimensions mounting position 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; can be tilted forwards as 5 mm mill according to DIN EN 50022 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • for mards • upwards • for mards • for live parts • forwards • for live parts • for live parts • for live parts • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit • for main contacts • for auxiliary contacts	•	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting - forwards - upwards - upwards - the side • for grounded parts - for grounded parts - backwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards - to fire wards - downwards - to fire wards - to man • for live parts - for owards - upwards - to man - to man • for live parts - for wards - to man - to man • for live parts - for owards - to man - to man - to man • for live parts - to man - to		2 x 3NA3020 (50 A) in series (750 V 3 kA)
• for short-circuit protection of the auxiliary switch required Installation mounting/ dimensions mounting position **F-22,5" rotation possible on vertical mounting surface; can be tilted froward and backward by *F-22,5" on vertical mounting surface; standing, on horizontal moun	,	
required mounting position 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; standing and backwards on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes * side-by-side mounting * of mail side 10 mm • for growards 10 mm • for live parts - forwards - packwards 10 mm • for live parts - forwards 10 mm • for live parts - solid or stranded - for mail curnet circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for mail contacts - solid or stranded 2x (2,5 10 mm²) 2x (1,5 4 mm²) type of connectable conductor cross-sections • for auxiliary and contacts • for auxiliary contacts		
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; standing, stand		99. 10 A (300 V, 1 KA)
mounting position +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22,5° not vertical mounting surface; standing, on horizontal mounting suface; stand	<u>.</u>	
fastening method side-by-side mounting side-by-side side-by-side		±/ 22.5° rotation possible on vertical mounting auriage; can be tilted
fastening method standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting height width form depth required spacing • with side-by-side mounting — forwards — backwards — backwards — upwards — downwards — 10 mm — downwards — at the side • for grounded parts — forwards — backwards — omm — upwards — the side — forwards — backwards — omm — upwards — lo mm — upwards — to mm — upwards — hackwards — omm — upwards — omm — omm • for live parts — forwards — backwards — omm — upwards — omm — upwards — lo mm • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for maxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • for auxiliary contracts - solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contracts	mounting position	
side-by-side mounting * side-by-side mounting height width depth 70 mm depth 104 mm required spacing * with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — forwards — backwards — upwards — forwards — 10 mm * for grounded parts — forwards — at the side — at the side — at the side — ownwards — upwards — backwards — upwards — lo mm * for grounded parts — forwards — at the side — ownwards — at the side — downwards — at the side — downwards — ownwards — ownwards — ownwards — ownwards — ownwards — upwards — ownwards — own		
• side-by-side mounting height width vidth 70 mm depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — the side — on mm	fastening method	
height width 70 mm depth 70 mm depth 104 mm required spacing • with side-by-side mounting 15 mm — forwards 15 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — of grounded parts — for grounded parts — forwards 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm • for live parts — forwards 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm • for live parts — forwards 30 mm — backwards 0 mm — backwards 10 mm — at the side 10 mm — of or main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for main current circuit screw-type terminals • for main current circuit screw-type terminals • for main contacts — solid or stranded 2x (2,5 10 mm²) — inely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	•	
width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — of grounded parts — for grounded parts — forwards — upwards — upwards — upwards — upwards — 10 mm — upwards — 10 mm — odornwards — 10 mm — of for live parts — for live parts — forwards — upwards — upwards — to mm — upwards — to mm — to mm connections/ Terminals type of electrical connection of or main current circuit screw-type terminals type of connectable conductor cross-sections of romai current circuit for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections of or auxiliary contacts	 side-by-side mounting 	Yes
depth required spacing • with side-by-side mounting — forwards 15 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm • for grounded parts — backwards 0 mm — backwards 0 mm — backwards 0 mm — upwards 10 mm • for grounded parts — forwards 0 mm — upwards 10 mm • backwards 10 mm • backwards 0 mm — upwards 10 mm • for live parts — forwards 30 mm • for live parts — forwards 0 mm — upwards 10 mm • for live parts — forwards 10 mm • for main current circuit screw-type terminals type of electrical connection of main current circuit screw-type terminals type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	height	85 mm
required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — 10 mm • for grounded parts — forwards — backwards — upwards — upwards — 10 mm — at the side — 10 mm • for live parts — forwards — forwards — of mm — upwards — the side — downwards — to mm • for live parts — forwards — backwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm — upwards — odownwards — to mm — connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts	width	70 mm
with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — forwards — backwards — forwards — forwards — backwards — backwards — backwards — upwards — backwards — upwards — at the side — downwards — upwards — at the side — downwards — of rorwards — forwards — of rorwards — of rorwards — of rorwards — to rorwards — of rorwards — upwards — backwards — upwards — upwards — upwards — backwards — upwards — at the side — of ormain control circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	depth	104 mm
forwards backwards upwards upwards downwards at the side for grounded parts forwards backwards backwards upwards upwards upwards upwards upwards of mine parts forwards forwards forwards forwards backwards backwards forwards backwards backwards backwards backwards upwards backwards upwards upwards upwards upwards downwards upwards downwards upwards for mine contacts side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit for main contacts solid or stranded finely stranded with core end processing for auxiliary contacts	required spacing	
	 with side-by-side mounting 	
- upwards - downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side • for live parts - forwards • for live parts - forwards - backwards - upwards - to mm - at the side - downwards - backwards - upwards - backwards - upwards - backwards - upwards - upwards - downwards - upwards - downwards - at the side - to mm - the side	— forwards	15 mm
- downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side - downwards - at the side - downwards - for live parts - forwards - for live parts - forwards - backwards - backwards - backwards - upwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - upwards - for main current circuit - for main current circuit - for auxiliary and control circuit type of connectable conductor cross-sections - finely stranded - finely stranded with core end processing type of connectable conductor cross-sections - for auxiliary contacts	— backwards	0 mm
- at the side • for grounded parts - forwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - mum - to mm - downwards • for live parts - forwards - backwards - backwards - upwards - upwards - upwards - upwards - to mm - 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 - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	— upwards	10 mm
• for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards forwards backwards forwards backwards upwards backwards upwards upwards downwards at the side downwards at the side downwards at the side to mm Connections/ Terminals type of electrical connection for auxiliary and control circuit for auxiliary and control circuit solid or stranded finely stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts	— downwards	10 mm
- forwards 30 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 30 mm - backwards 0 mm - upwards 10 mm - backwards 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • 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 type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts	— at the side	10 mm
- forwards 30 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 30 mm - backwards 0 mm - upwards 10 mm - backwards 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • 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 type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts	 for grounded parts 	
backwards 0 mm upwards 10 mm at the side 10 mm downwards 10 mm • for live parts forwards 30 mm backwards 0 mm upwards 10 mm downwards 10 mm at the side 50 mm • for main current circuit 50 screw-type terminals 5	-	30 mm
- upwards		0 mm
- at the side	— upwards	
- downwards • for live parts - forwards - backwards - upwards - downwards - 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 - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	•	10 mm
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		
forwards 30 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 • 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 type of connectable conductor cross-sections • for auxiliary contacts		
- 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 • 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 type of connectable conductor cross-sections • for auxiliary contacts	•	30 mm
- 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 - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts		
- 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 - solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts		
- 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 - solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	•	
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts		
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts		
 for main current circuit for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts Screw-type terminals 2x (2,5 10 mm²) 2x (1.5 4 mm²)		ecrew-type terminals
 for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts screw-type terminals 2x (2,5 10 mm²) 2x (1.5 4 mm²)		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 2x (2,5 10 mm²) 2x (1.5 4 mm²)		
 for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts 2x (2,5 10 mm²) 2x (1.5 4 mm²) 3x (1.5 4 mm²) 	-	screw-type terminals
 — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts 2x (2,5 10 mm²) 2x (1.5 4 mm²) 		
— finely stranded with core end processing type of connectable conductor cross-sections of or auxiliary contacts 2x (1.5 4 mm²)		0 (0 5 40 3)
type of connectable conductor cross-sections • for auxiliary contacts		
• for auxiliary contacts		2x (1.5 4 mm²)
— solid or stranded 2x (1 2,5 mm²)	-	
	— solid or stranded	2x (1 2,5 mm²)

- finely stranded with core end processing

2x (0.75 ... 1.5 mm²)

Safety related data

60529

product function mirror contact according to IEC 60947-4-

protection class IP on the front according to IEC

left auxiliary switch block respectively IP00

Certificates/ approvals

General Product Approval

Functional Safety/Safety of Machinery



Confirmation







Yes; One NC contact each must be connected in series for the right and

Type Examination Certificate

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous

Marine / Shipping

other

Dangerous Good



Confirmation

Transport Information

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=3TC4417-0BF0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BF0

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BF0

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

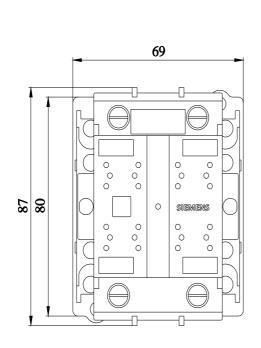
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BF0&lang=en

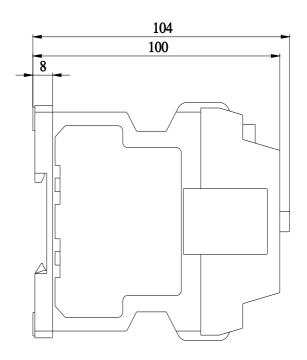
Characteristic: Tripping characteristics, I2t, Let-through current

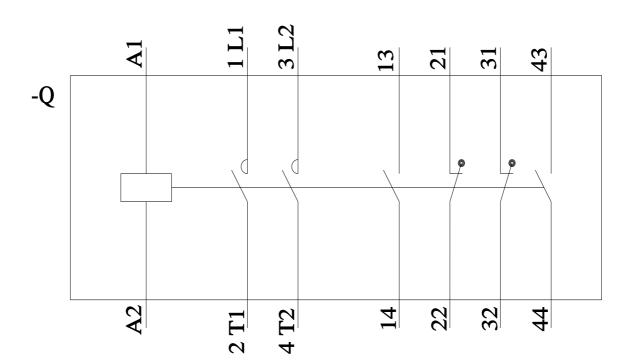
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BF0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BF0&objecttype=14&gridview=view1







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