SIEMENS

Data sheet 3TC4417-0BL2



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 230 V AC 50/60 Hz 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 (switching 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
	29 A
— at 440 V rated value	
— 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	
Control circuit/ Control	^^
type of voltage of the control supply voltage	AC
type of voltage of the control supply voltage control supply voltage at AC	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	230 V
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated	230 V
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	230 V 230 V
type of voltage of the control supply voltage control supply voltage at AC • 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	230 V 230 V 0.8 1.1
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 Hz	230 V 230 V 0.8 1.1 0.85 1.1
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 Hz apparent pick-up power of magnet coil at AC	230 V 230 V 0.8 1.1 0.85 1.1 79 VA
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA
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type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 inductive power factor with the holding power of the coil	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz • at 60 Hz	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3
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type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms
type of voltage of the control supply voltage control supply voltage at AC • 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 • at 60 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 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 inductive power factor with the holding power of the coil	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 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 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 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	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 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 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 inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil at 50 Hz inductive power factor with the holding power of the coil	230 V 230 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms

operational current at AC-15		40.4
** at 230 V rated value	operational current at AC-12 maximum	10 A
a at 400 V rated value	•	50 A
• at 500 V rated value		
operational current at DC-12		
at 24 V rated value		2.5 A
at 48 V rated value 10 A 10 A 10 A 10 A 11 A 10 A 11 A 10 V rated value 2.5 A 2.5 A 11 A 12 A	•	40.4
• at 60 V rated value		
• at 110 V rated value		
• at 125 V rated value 0.9 A 0.9		
• at 220 V rated value		
10 A 12 4 V rated value		
		U.22 A
• at 48 V rated value	-	40.4
■ at 16 V rated value ■ at 170 V rated value ■ at 125 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 700 V rated		
at 125 V rated value at 220 V rated value 0.48 A at 800 V rated value 0.07 A DUCCSA ratings contact rating of auxiliary contacts according to UL 4600 / 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 • for short-circuit protection of the auxiliary switch 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 • 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 • 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 • side (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required • side-by-side 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 forwar		
• at 220 V rated value • at 600 V rated value UL/CSA ratings 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 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 • 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 section possible on vertical mounting surface; can be tilted for overard and backward by ++ 22.5° on vertical mounting surface; sacrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards • Downwards • Downwards • In mm • for grounded parts • for live parts		
• at 600 V rated value ULCSA ratings 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 assignment 2 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 main circuit - with type of assignment 2 required • for short-circuit protection of the main circuit - with side-by-side mounting of the auxiliary switch required and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by **- 22.5* or vertical mounting surface; can be tilted forward and backward by *		
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 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 • 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side nounting surface; an be tilted forward and backwards on mm • with side-by-side mounting surface; and be tilted forward and backwards on mm • for manufaction possible on vertical mounting surface; and better and backwards on mm • for manufaction possible on vertical mounting surface; and better and backwards on mounting onto a sandard mounting surface; as and backwards on mounting onto a sandard mou		
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 coordination 1 required — with type of assignment 2 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; stand		U.U/ A
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 • 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 gift in the auxiliary switch required should be auxiliary switch gift in the said said said said said said said said		A000 / D000
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 • 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 • for short-circuit protection of the auxiliary switch • for satilitation/ menting for sold protection of the auxiliary switch • for satillation/ menting for sold possible on vertical mounting surface; and built deformance on the satility of sold protection on the satility of sold protection of the auxiliary switch for satility and sold protection on vertical mounting surface; and built deformance on built deformanc		A000 / P000
• for short-circuit protection of the main circuit - 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position - **P-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 on horizontal mounting su		
- with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required **of or short-circuit protection of the auxiliary switch required **of or short-circuit protection of the auxiliary switch required **of or short-circuit protection of the auxiliary switch required **mounting position **wounting position **stabliation/ mounting/ dimensions **mounting position **stabliation/ mounting/ dimensions **mounting position **stabliation/ mounting/ dimensions **mounting position **stabliation/ mounting/ dimensions **stabliation/ mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation possible on vertical mounting surface; can be tilted froward and backward by 4/-22.5° rotation poss		
- with type of assignment 2 required of 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; standing on horizontal mounting surface; standing on horizontal mounting surface; standing, on horizontal mounting surface; standing, on horizontal mounting surface; standing on horizontal mounting surface; standing, on horizontal mounting surface; standing on horizontal mounting surface; standing, on horizontal mounting surface; and be tilted forwards as 5 mm ### ### ### ### ### ### ### ### ###		0 · · 0NA0000 (F0 A) ini (750 V 0 I/A)
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; standing, or standing surface; s		gG: 16 A (500 V, 1 KA)
### ### ##############################	·	
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 e side-by-side mounting Yes height 85 mm width 70 mm depth 104 mm e with side-by-side mounting - - forwards 15 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm • for grounded parts 0 mm - packwards 0 mm - at the side 10 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts 10 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 10 mm - forwards 30 mm - backwards 0 mm - forwards 10 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - forwards 10 mm	mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted
eside-by-side mounting Peight 85 mm 70 mm depth 104 mm required spacing ● with side-by-side mounting — forwards — backwards — upwards — at the side — forvards — backwards — backwards — to mm — oforwards — 10 mm • for grounded parts — forvards — backwards — upwards — 10 mm • for grounded parts — forwards — backwards — backwards — to mm • for grounded parts — forwards — backwards — backwards — backwards — to mm • for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — 10 mm • for live parts — forvards — backwards — backwards — backwards — to mm • for live parts — forwards — backwards — backwards — backwards — backwards — to mm — downwards — to mm — downwards — lo mm — downwards — upwards — backwards — upwards — backwards — upwards — lo mm — downwards — lo mm — downwards — lo mm — downwards — lo mm		forward and backward by +/- 22.5° on vertical mounting surface:
e side-by-side mounting Yes height 85 mm width 70 mm depth 104 mm required spacing Featured spacing • with side-by-side mounting Featured spacing - forwards 15 mm - backwards 0 mm - upwards 10 mm - downwards 10 mm • for grounded parts For grounded parts - forwards 30 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - for live parts 30 mm - forwards 30 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 10 mm - for live parts 10 mm <		standing, on horizontal mounting surface
height 85 mm width 70 mm depth 104 mm required spacing • with side-by-side mounting ● with side-by-side mounting 15 mm — forwards 15 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm ● for grounded parts 30 mm — backwards 0 mm — backwards 10 mm — at the side 10 mm — downwards 10 mm ● for live parts	fastening method	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
width 70 mm depth 104 mm required spacing • with side-by-side mounting ● with side-by-side mounting 15 mm — forwards 0 mm — backwards 0 mm — downwards 10 mm — at the side 10 mm ● for grounded parts 0 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm ● for live parts 10 mm — backwards 0 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm — at the side 10 mm	-	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
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 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 30 mm — backwards 0 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
required spacing • with side-by-side mounting — forwards — backwards — upwards — 10 mm — at the side — torwards — for grounded parts — forwards — backwards — o mm — upwards — 10 mm — to mm — upwards — backwards — upwards — at the side — downwards — to mm — to	side-by-side mounting height	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm
 with side-by-side mounting forwards backwards 0 mm upwards 10 mm downwards at the side 10 mm for grounded parts for grounded parts backwards upwards upwards at the side 10 mm upwards at the side 10 mm downwards for live parts forwards abackwards 0 mm downwards 10 mm for low parts forwards upwards o mm backwards upwards at the side 10 mm downwards at the side 10 mm at the side 10 mm 	side-by-side mounting height width	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm
— forwards 15 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm • for grounded parts 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm
— backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm • for grounded parts 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 10 mm	• side-by-side mounting height width depth required spacing	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm
— upwards 10 mm — downwards 10 mm — at the side 10 mm • for grounded parts 30 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth required spacing	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm
— downwards 10 mm — at the side 10 mm ● for grounded parts 30 mm — forwards 0 mm — backwards 10 mm — at the side 10 mm — downwards 10 mm ● for live parts 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm
 — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — upwards — 0 mm — backwards — upwards — upwards — downwards — upwards — at the side 10 mm — at the side 10 mm 	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm
 for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards 0 mm forwards mm backwards upwards upwards downwards 10 mm upwards downwards at the side 10 mm 	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
 — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — upwards — downwards — o mm — upwards — downwards — downwards — at the side 30 mm — mm — at the side 30 mm — mm 	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm
— backwards 0 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm
 — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — downwards — at the side 10 mm — at the side 10 mm — mm 	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm 10 mm
— at the side 10 mm — downwards 10 mm ● for live parts 30 mm — forwards 0 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 for live parts — forwards — backwards — upwards — downwards — at the side 30 mm 0 mm 10 mm 10 mm 	side-by-side mounting height width depth required spacing	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm 10 mm 10 mm 0 mm
 for live parts — forwards — backwards — upwards — downwards — at the side 30 mm 0 mm 10 mm 10 mm 	side-by-side mounting height width depth required spacing	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
— forwards 30 mm — backwards 0 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — at the side of or grounded parts — at the side — backwards — upwards — backwards — at the side	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
 upwards downwards at the side 10 mm 10 mm 	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
— downwards— at the side10 mm10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — at the side of or grounded parts — forwards — backwards — upwards — backwards — upwards — of or grounded — for grounded — backwards — of or grounded — backwards — of or grounded — of or gr	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
downwardsat the side10 mm10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — at the side for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards • for live parts — forwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
— at the side 10 mm	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — upwards — backwards — to grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards for live parts — forwards — backwards — backwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
Connections/ Terminals	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — upwards — backwards — the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards for live parts — forwards — backwards — backwards — upwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm
	side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — upwards — at the side — forwards — at the side — forwards — backwards — upwards — at the side — downwards for live parts — forwards — backwards — upwards — backwards — upwards — backwards — backwards — upwards — downwards	standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm 70 mm 104 mm 15 mm 0 mm 10 mm

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 	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
protection class IP on the front according to IEC 60529	IP00
Certificates/ approvals	

General Product Approval

Functional Safety/Safety of Machinery





Confirmation





Type Examination Certificate

Functional
Safety/Safety of
Machinery

Declaration of Conformity

Test Certificates

Type Examination Certificate





Type Test Certificates/Test Report

Miscellaneous

Special Test Certificate

Marine / Shipping

other

Dangerous Good



Confirmation

Transport Informa-<u>tion</u>

Further 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=3TC4417-0BL2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BL2

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BL2

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

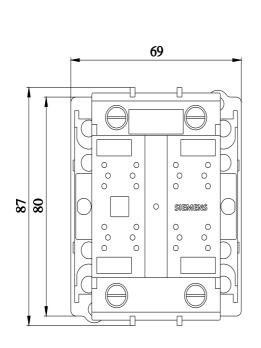
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BL2&lang=en

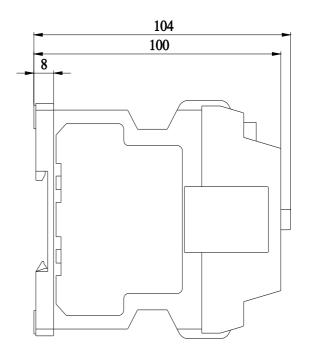
Characteristic: Tripping characteristics, I2t, Let-through current

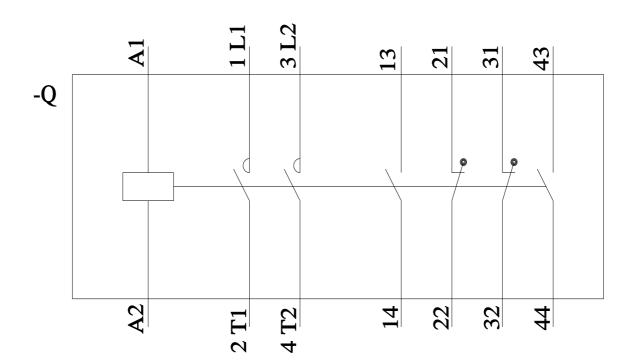
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BL2/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BL2&objecttype=14&gridview=view1







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