SIEMENS

Data sheet

3TC4417-0BG1



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 110 V 60 Hz/92 V AC 50 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 acc. 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.02.2012
Ambient conditions	
ambient temperature	
 during operation 	-25 +55 °C
 during storage 	-50 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C acc. 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

	20.4
— 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	
	AC
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	92 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	92 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	92 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	92 V 110 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 60 Hz	92 V 110 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 60 Hz apparent pick-up power of magnet coil at AC	92 V 110 V 0.8 1.1 95 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz • at 60 Hz inductive power factor with closing power of the coil	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 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 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power of magnet coil at AC • at 60 Hz inductive power of magnet coil at AC • at 60 Hz inductive power factor with the holding power of the coil • at 60 Hz inductive power factor with the holding power of the coil	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • 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 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A
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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz at 60 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz apparent holding power of magnet coil at AC • 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 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 10 V·A 12 V·A 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 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • 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 at 60 Hz • at 60 Hz	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 10 V·A 12 V·A 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 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 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 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz <t< th=""><th>92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 0.29 0.3 20 30 ms</th></t<>	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 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 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 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 • at 60 Hz </th <th>92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 0.29 0.3 20 30 ms</th>	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 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 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 60 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 • instantaneous contact	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 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 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 apparent holding power of magnet coil at AC • 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 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact • instantaneou	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 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 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 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 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous c	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 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 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 apparent holding power of magnet coil at AC • 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 60 Hz arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact • instantaneou	92 V 110 V 0.8 1.1 95 V·A 68 V·A 95 V·A 0.79 0.86 0.79 12 V·A 10 V·A 12 V·A 0.3 0.29 0.3 20 30 ms 2 2 2 2 0 0

operational current at AC-15	-
at 230 V rated value	5.6 A
• 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 125 V fated value at 220 V rated value	0.98 A
at 220 V rated value at 600 V rated value	0.48 A
UL/CSA ratings	4000 / 2000
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	
installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	+/-22.5° rotation possible on vertical mounting surface; can be tilted
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
	forward and backward by +/- 22.5° on vertical mounting surface;
mounting position	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
mounting position fastening method • side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
mounting position fastening method o side-by-side mounting height	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 85 mm
mounting position fastening method side-by-side mounting height width 	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method side-by-side mounting height width depth 	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — backwards — backwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — upwards — upwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — at the side — how ards — at the side — how ards — how ards <td>forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm 10 mm 10 mm</td>	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — forwards — upwards — downwards — downwards — upwards — downwards — upwards — downwards — at the side — downwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm
mounting position fastening method • 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 • for grounded parts - forwards - backwards - upwards - backwards - backwards - backwards - ownwards - at the side - for live parts	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — at the side • for grounded parts — forwards — upwards — forwards — forwards — forwards — forwards — forwards — forwards — for live parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 10 mm 10 mm 10 mm 10 mm
mounting position fastening method • 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 — upwards — backwards — upwards — forwards — forwards — forwards — backwards — upwards — backwards — upwards — backwards — backwards — backwards — backwards — backwards — backwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — upwards — backwards — upwards — forwards — backwards — upwards — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface; 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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - at the side • for grounded parts - forwards - backwards - upwards - backwards - backwards - forwards - backwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - upwards - downwards	forward and backward by +/- 22.5° on vertical mounting surface; 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 104 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — upwards — backwards — upwards — forwards — backwards — upwards — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface; 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

 for main currer 	nt circuit	SC	rew-type terminals		
 for auxiliary an 	d control circuit	sc	rew-type terminals		
type of connectable	e conductor cross-sect	tions			
 for main contact 	cts				
— solid or st	randed	2x	(2,5 10 mm²)		
- finely stranded with core end processing		cessing 2x	2x (1.5 4 mm ²)		
type of connectable	e conductor cross-sect	tions			
 for auxiliary co 	ntacts				
— solid or st	randed	2x	(1 2,5 mm²)		
— finely stra	nded with core end proc	cessing 2x	(0.75 1.5 mm²)		
Safety related data					
protection class IP	on the front acc. to IEC	C 60529 IP	00		
Certificates/ approva	ls				
General Product A	pproval			Functional Safety/S	afety of Machinery
(1)	(m)	Ē	rnr	Type Examination	Type Examination
SP SM	CCC		EAC	<u>Type Examination</u> <u>Certificate</u>	<u>Type Examination</u> <u>Certificate</u>
Declaration of Con	formity	UL UL	EAC		
Declaration of Con UK Declaration of Conformity	formity EG-Konf.	Test Certificates Miscellaneous	Effic Type Test Certific- ates/Test Report		Certificate
UK Declaration of	CE		Type Test Certific-	Certificate Special Test Certific-	Certificate

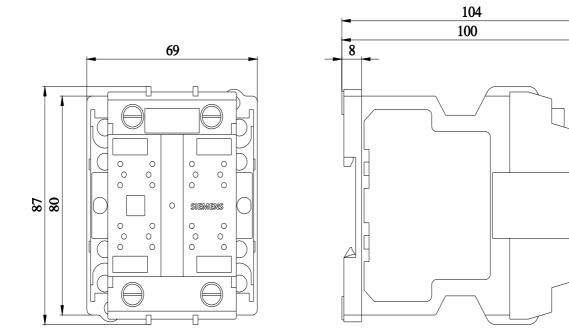
Further information

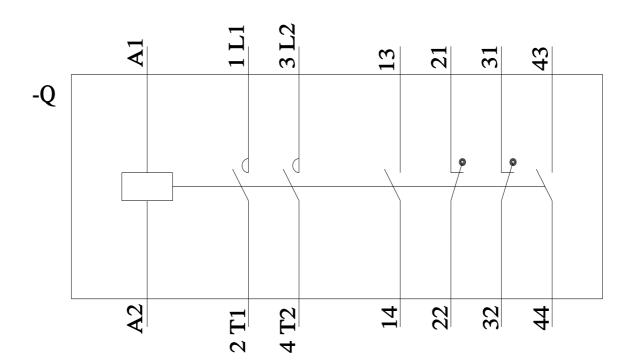
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC4417-0BG1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BG1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BG1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BG1&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BG1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BG1&objecttype=14&gridview=view1





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1/3/2022