## SIEMENS

## Data sheet

## 3TC4417-0BK6



Contactor size 2, 2-pole DC-3 and 5, 32 A Auxiliary switch 22 (2 NO + 2 NC) Alternating current operation 120 V AC 60 Hz/110 V AC 50 Hz

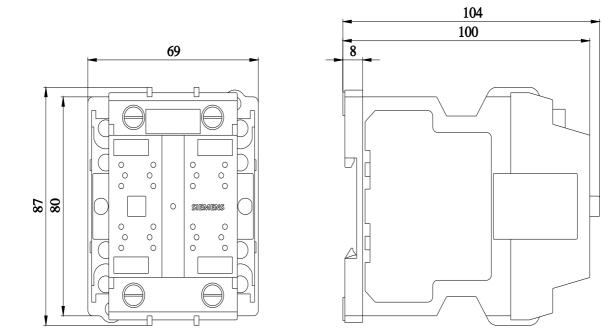
12			
product designation	Contactor		
product type designation	3TC		
General technical data			
size of contactor	2		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
<ul> <li>auxiliary switch</li> </ul>	Yes		
insulation voltage rated value	800 V		
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	300 V		
shock resistance at rectangular impulse			
• at AC	7,5g / 5 ms, 3,4g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	02/01/2012		
SVHC substance name	Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1		
Ambient conditions			
ambient temperature			
<ul> <li>during operation</li> </ul>	-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			
<ul> <li>at 1 current path at DC-1</li> </ul>			
— at 24 V rated value	32 A		
— at 110 V rated value	32 A		
— at 220 V rated value	32 A		
<ul> <li>with 2 current paths in series at DC-1</li> </ul>			
— at 24 V rated value	32 A		
— at 110 V rated value	32 A		

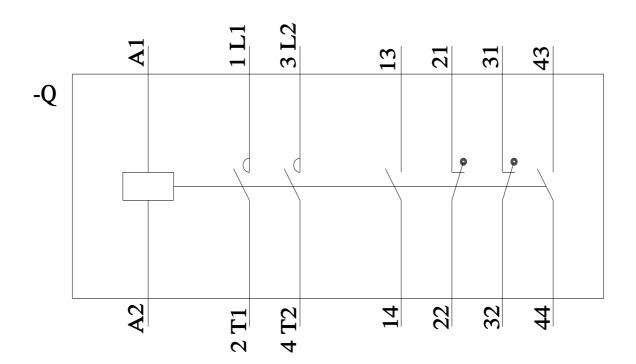
— at 440 V rated value	32 A
— at 600 V rated value	32 A
— at 750 V rated value	32 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	32 A
— at 110 V rated value	32 A
— at 220 V rated value	32 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated 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
	4 KVV
operating frequency	4 500 4 15
• 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
type of voltage of the control supply voltage	AC 110 V
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	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	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	110 V 120 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	110 V 120 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	110 V 120 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	110 V 120 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	110 V 120 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	110 V 120 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 • at 60 Hz • at 60 Hz	110 V 120 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 • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	110 V 120 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	110 V 120 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	110 V 120 V 0.8 1.1 0.85 1.1 79 VA 68 VA 95 VA 0.83 0.83 0.86 0.79 11 VA 10 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	110 V 120 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         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 60 Hz         • at 60 Hz         inductive power of magnet coil at AC         • at 60 Hz	110 V 120 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 60 Hz • at 60 Hz	110 V 120 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
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 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         inductive power factor with closing power of the coil         • at 60 Hz         apparent holding power of magnet coil at AC         • at 60 Hz	110 V 120 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 60 Hz         apparent pick-up power of magnet coil at AC         • 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 60 Hz         apparent holding power of magnet coil at AC         • at 60 Hz         • at 60 Hz </td <td>110 V 120 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</td>	110 V 120 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
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         apparent pick-up power of magnet coil at AC         • 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 60 Hz         at 60 Hz         at 60 Hz         • at 60 Hz <td>110 V 120 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</td>	110 V 120 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 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         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 60 Hz	110 V 120 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 • 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 6	110 V 120 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 • 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	110 V 120 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 • 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 6	110 V 120 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 • 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	110 V 120 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         apparent pick-up power of magnet coil at AC         • 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 60 Hz         apparent holding power of magnet coil at AC         • at 60 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 60 Hz         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         •         • instantaneous contact         number of NO contacts for a	110 V 120 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 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 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         inductive power factor with the holding power of the coil         • at 60 Hz         inductive power factor with the holding power of the coil         • at 60 Hz         inductive power of NC contacts for auxiliary contacts         •         • instantaneous contact	110 V 120 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 2
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 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 arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • • instantaneous contact number of NO contacts for auxiliary contacts • • instantaneous contact	110 V 120 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 2 2 2

operational current at AC-12 maximum10 Aoperational current at AC-15		
• at 230 V rated value5.6 A• at 400 V rated value3.6 A• at 500 V rated value2.5 A <b>operational current at DC-12</b> 10 A• at 24 V rated value10 A• at 48 V rated value10 A• at 60 V rated value10 A• at 110 V rated value3.2 A• at 125 V rated value0.9 A• at 220 V rated value0.22 A• at 600 V rated value0.22 A• at 24 V rated value0.22 A• at 600 V rated value5 A• at 24 V rated value5 A• at 24 V rated value5 A• at 25 V rated value5 A• at 24 V rated value5 A• at 25 V rated value5 A• at 20 V rated value5 A• at 20 V rated value5 A• at 20 V rated value5 A• at 220 V rated value0.98 A• at 220 V rated value0.48 A		
• at 400 V rated value3.6 A• at 500 V rated value2.5 Aoperational current at DC-12V• at 24 V rated value10 A• at 48 V rated value10 A• at 60 V rated value10 A• at 110 V rated value3.2 A• at 220 V rated value0.9 A• at 600 V rated value0.22 A• at 24 V rated value5 A• at 600 V rated value5 A• at 24 V rated value5 A• at 100 V rated value5 A• at 24 V rated value5 A• at 24 V rated value5 A• at 24 V rated value5 A• at 25 V rated value5 A• at 20 V rated value5 A• at 220 V rated value0.98 A• at 220 V rated value0.48 A		
• at 500 V rated value2.5 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value10 A• at 60 V rated value10 A• at 110 V rated value3.2 A• at 125 V rated value2.5 A• at 220 V rated value0.9 A• at 600 V rated value0.22 A• at 24 V rated value10 A• at 24 V rated value5 A• at 25 V rated value5 A• at 110 V rated value5 A• at 25 V rated value0.98 A• at 220 V rated value0.98 A• at 220 V rated value0.98 A		
operational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value10 A• at 60 V rated value10 A• at 110 V rated value3.2 A• at 125 V rated value2.5 A• at 220 V rated value0.9 A• at 600 V rated value0.22 Aoperational current at DC-1310 A• at 24 V rated value5 A• at 60 V rated value5 A• at 24 V rated value5 A• at 24 V rated value0.98 A• at 125 V rated value0.98 A• at 220 V rated value0.98 A		
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>5 A</li> <li>at 60 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>5 A</li> <li>at 125 V rated value</li> <li>0.98 A</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.9 A</li> <li>at 600 V rated value</li> <li>0.22 A</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 48 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>5 A</li> <li>at 60 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>0.98 A</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
• at 60 V rated value10 A• at 110 V rated value3.2 A• at 125 V rated value2.5 A• at 220 V rated value0.9 A• at 600 V rated value0.22 A• operational current at DC-1310 A• at 24 V rated value5 A• at 60 V rated value5 A• at 60 V rated value5 A• at 110 V rated value5 A• at 25 V rated value0.98 A• at 220 V rated value0.98 A		
• at 110 V rated value3.2 A• at 125 V rated value2.5 A• at 220 V rated value0.9 A• at 600 V rated value0.22 Aoperational current at DC-13• at 24 V rated value10 A• at 48 V rated value5 A• at 60 V rated value5 A• at 110 V rated value5 A• at 125 V rated value0.98 A• at 220 V rated value0.98 A		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>0.9 A</li> <li>0.22 A</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>5 A</li> <li>at 60 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>1.14 A</li> <li>at 125 V rated value</li> <li>0.98 A</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.22 A</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>5 A</li> <li>at 60 V rated value</li> <li>5 A</li> <li>at 110 V rated value</li> <li>1.14 A</li> <li>at 125 V rated value</li> <li>0.98 A</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
• at 600 V rated value0.22 Aoperational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value5 A• at 60 V rated value5 A• at 110 V rated value1.14 A• at 125 V rated value0.98 A• at 220 V rated value0.48 A		
operational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value5 A• at 60 V rated value5 A• at 110 V rated value1.14 A• at 125 V rated value0.98 A• at 220 V rated value0.48 A		
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
• at 48 V rated value5 A• at 60 V rated value5 A• at 110 V rated value1.14 A• at 125 V rated value0.98 A• at 220 V rated value0.48 A		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.48 A</li> </ul>		
at 125 V rated value     0.98 A     at 220 V rated value     0.48 A		
• at 220 V rated value 0.48 A		
• at 600 V rated value 0.07 A		
UL/CSA ratings		
contact rating of auxiliary contacts according to UL A600 / P600		
Short-circuit protection		
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
- 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		
	cal mounting surface; can be tilted forward tical mounting surface; standing, on horizontal	
	o 35 mm DIN rail according to DIN EN 50022	
fastening method side-by-side mounting Yes		
height 85 mm		
width 70 mm		
depth 104 mm		
required spacing		
with side-by-side mounting		
— forwards 15 mm		
— backwards 0 mm		
— upwards 10 mm		
— downwards 10 mm		
— at the side 10 mm		
for grounded parts		
— forwards 30 mm		
— backwards 0 mm		
— upwards 10 mm	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		
— downwards     10 mm       — at the side     10 mm		
— at the side 10 mm		

	control circuit	screw-type terminals		
type of connectable co	nductor cross-sections for main contac	ts		
<ul> <li>solid or stranded</li> </ul>	t	2x (2,5 10 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 4 mm <sup>2</sup> )		
type of connectable of	conductor cross-sections			
<ul> <li>for auxiliary cont</li> </ul>	tacts			
— solid or stra	anded	2x (1 2.5 mm <sup>2</sup> )	2x (1 2.5 mm²)	
— finely stran	ded with core end processing	2x (0.75 1.5 mm <sup>2</sup> )		
Electrical Safety				
protection class IP or	n the front according to IEC 60529	IP00		
Approvals Certificates				
General Product App	proval			
CSA		<b>K</b> Confirmation	EG-Konf.	
General Product Ap- proval	Functional Saftey	Test Certificates		
General Product Approval	Type Examination Cer- Type Exam	Test Certificates nination Cer- Miscellaneous cate	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
proval	Type Examination Cer- Type Exam	nination Cer- Miscellaneous		

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC4417-0BK6
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BK6
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BK6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0BK6⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BK6/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BK6&objecttype=14&gridview=view1





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