## **SIEMENS**

Data sheet 3TC4417-0BP6



Contactor size 2, 2-pole DC-3 and 5, 32 A Auxiliary switch 22 (2 NO + 2 NC) Alternating current operation 240 V AC 60 Hz/22 V AC 50 Hz

product type dosignation  General technical dista size of contactor  • function module for communication • auxiliary switch  Yes  insulation voltage rated value  maximum permissible voltage for protective separation between cold and main contacts according to EN 00947-1  shock resistance at rectangular impulse • at AC  ### Act A	product designation	Contactor	
size of contactor product extension  • function module for communication • function module for communication • function module for communication • auxiliary switch  resultation voltage rated value 800 V  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at 1 AC  mechanical service life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2  Qu Substance Prohibitance (Date)  SVHC substance Prohibitance (Date)  Qu	product type designation	3TC	
product extension  • function module for communication  • function module for communication  • a uxillary switch  Insulation voltage rated value  maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  mechanical service life (operating cycles)  • of contactor vilpical  • of the contactor with added auxillary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  6,6°-d-lert-butyl-2,2'-methylenedi-p-cresol - 119-47-1  Weight  0,6°3 kg  Ambient conditions  ambient temperature  • during operation  • during operation  • during storage  relative humidity minimum  rolative humidity minimum  rolative humidity at 55 °C according to IEC 60088-2-30  maximum  Main circuit  number of poles for main current circuit  2 number of poles for main current circuit  2 number of NO contacts for main contacts  3 2 A  4 11 UV rated value  - at 12 UV rated value  - at 22 UV rated value  - at 22 UV rated value  - at 22 UV rated value  - at 24 V rated value	General technical data		
• function module for communication • auxiliary switch Insulation voltage rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC  mechanical service life (operating cycles) • of contactor typical • of the contactor typical • of the contactor typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical  • of the contactor typical  • of the contactor typical  • of the con	size of contactor	2	
auxiliary switch Insulation voltage rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  at AC  at AC  mechanical service life (operating cycles)  of contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  sylts substance Prohibitance (Date)  Sylts substance Prohibitance (Date)  Sylts substance name  lead - 7439-92-1 6.6-d-letr-butyl-2-2-methylenedl-p-cresol - 119-47-1  Weight  0.673 kg  Ambient conditions  ambient temperature  of uring operation  of uring storage  of uring storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles for main current circuit  number of Poles for main current circuit  number of NC contacts for main contacts  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value  32 A  — at 220 V rated value  32 A  • at 22 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1	product extension		
insulation voltage rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC 7,5g / 5 ms, 3,4g / 10 ms  mechanical service life (operating cycles)  • of contactor typical 10 000 000  • of the contactor with added auxiliary switch block typical 10 000 000  reference code according to IEC 81346-2 Q  Substance Prohibitance (Date) 02/01/2012  SVHC substance name 6.6-4-6lert-butyl-2,2*-methylenedi-p-cresol - 119-47-1  Weight 0.673 kg  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  Main circuit  number of poles 12  number of poles for main current circuit 2  number of NC contacts for main contacts 2  type of voltage DC  operational current  • at 1 current path at DC-1  —at 24 V rated value 32 A  • with 2 current paths in series at DC-1  —at 24 V rated value 32 A  • with 2 current paths in series at DC-1  —at 24 V rated value 32 A  • with 2 current paths in series at DC-1  —at 24 V rated value 32 A	<ul> <li>function module for communication</li> </ul>	No	
maximum permissible voltage for protective separation between coll and main contacts according to EM 60947-1 shock resistance at rectangular impulse  • at AC  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1  Weight  0.673 kg  Ambient conditions  ambient temperature  • during operation • during operation • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles for main current circuit  number of NC contacts for main contacts  type of voltage  operational current • at 1 current path at DC-1  — at 24 V rated value — at 120 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1  — at 24 V rated value • with 2 current paths in series at DC-1	auxiliary switch	Yes	
shock resistance at rectangular impulse  • at AC  **To Sp / 5 ms, 3,4g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  6.6°-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1  Weight  Ambient conditions  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles  number of poles  2  number of NC contacts for main contacts  2  number of NC contacts for main contacts  o type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value	insulation voltage rated value	800 V	
mechanical service life (operating cycles)  of contactor typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quo1/2012  SVHC substance name  0201/2012  SVHC substance name  0804 - 47439-92-1 6,6"-di-tert-butyl-2,2"-methylenedi-p-cresol - 119-47-1  Weight  0873 kg  Ambient conditions  ambient temperature  oduring operation  oduring storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles for main current circuit  number of NC contacts for main contacts  type of Voltage  operational current  out 1 current path at DC-1  — at 24 V rated value — at 220 V rated value — at 220 V rated value  owith 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  owith 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value  with 2 current paths in series at DC-1 — at 24 V rated value		300 V	
mechanical service life (operating cycles)  • of contactor typical  • of contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1 6,6"-di-tert-butyl-2,2"-methylenedi-p-cresol - 119-47-1  Weight  Ambient conditions  ambient temperature  • during operation • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  2 number of poles for main current circuit 2 number of NC contacts for main contacts 1 ype of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1	shock resistance at rectangular impulse		
of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Weight Ambient conditions ambient temperature oldring operation during operation relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit number of poles number of poles for main current circuit 2 number of NC contacts for main contacts type of voltage operational current  at 10 vraled value at 110 vraled value - at 220 V rated value - at 220 V rated value with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1 - at 24 V rated value  with 2 current paths in series at DC-1	• at AC	7,5g / 5 ms, 3,4g / 10 ms	
of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Q2/01/2012 SVHC substance name Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Weight Q67-3 kg Ambient conditions ambient temperature during operation during storage -50+55 °C relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles number of poles for main current circuit 2 number of NO contacts for main contacts 1 type of voltage operational current at 1 current path at DC-1 - at 24 V rated value - at 120 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 24 V rated value - at 25 V rated value - at 25 V rated value - at 26 V rated value	mechanical service life (operating cycles)		
reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1  Weight  Ambient conditions  ambient temperature  • during operation • during storage  relative humidity minimum  10 %  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  2  number of Poles for main current circuit  number of NC contacts for main contacts  2  number of NC contacts for main contacts  0  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value — at 220 V rated value — at 220 V rated value  - at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  • with 2 current paths in series at DC-1	<ul> <li>of contactor typical</li> </ul>	10 000 000	
Substance Prohibitance (Date)   02/01/2012	of the contactor with added auxiliary switch block typical	10 000 000	
SVHC substance name  Lead - 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1  Weight  O.673 kg  Ambient conditions  ambient temperature  • during operation • during storage -50 +85 °C  relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles 2 number of poles for main current circuit 2 number of NC contacts for main contacts 2 number of NC contacts for main contacts 0 type of voltage  operational current  • at 1 current path at DC-1 - at 24 V rated value - at 110 V rated value 32 A - at 220 V rated value  • with 2 current paths in series at DC-1 - at 24 V rated value 32 A  • with 2 current paths in series at DC-1 - at 24 V rated value 32 A	reference code according to IEC 81346-2	Q	
Meight   0.673 kg	Substance Prohibitance (Date)	02/01/2012	
Ambient conditions  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A	SVHC substance name		
ambient temperature  • during operation  • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  number of poles for main current circuit  number of NO contacts for main contacts  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value — at 110 V rated value — at 220 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  32 A  • with 2 current paths in series at DC-1 — at 24 V rated value  32 A	Weight	0.673 kg	
<ul> <li>during operation</li> <li>during storage</li> <li>50 +80 °C</li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> <li>Main circuit</li> <li>number of poles</li> <li>2 number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>2 number of NC contacts for main contacts</li> <li>type of voltage</li> <li>DC</li> <li>operational current</li> <li>at 1 current path at DC-1</li> <li>—at 24 V rated value</li> <li>—at 110 V rated value</li> <li>—at 220 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>—at 24 V rated value</li> <li>32 A</li> <li>with 2 current paths in series at DC-1</li> <li>—at 24 V rated value</li> <li>32 A</li> </ul>	Ambient conditions		
o during storage     relative humidity minimum     10 %  relative humidity at 55 °C according to IEC 60068-2-30    95 %  maximum  Main circuit  number of poles    2	ambient temperature		
relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  number of poles contacts for main current circuit contacts contacts for main contacts contacts for main contacts contacts for main contacts contacts contacts for main contacts co	during operation	-25 +55 °C	
relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles  number of poles   2 number of NO contacts for main current circuit   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  • with 2 current paths in series at DC-1  — at 24 V rated value   32 A  • with 2 current paths in series at DC-1  — at 24 V rated value   32 A	during storage	-50 +80 °C	
maximum  Main circuit  number of poles 2 number of poles 50 2 number of NO contacts 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	relative humidity minimum	10 %	
number of poles  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value — at 110 V rated value — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A		95 %	
number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A	Main circuit		
number of NO contacts for main contacts  1 number of NC contacts for main contacts  1 type of voltage  1 DC  1 operational current  1 at 1 current path at DC-1  1 at 24 V rated value  1 at 110 V rated value  1 at 220 V rated value  1 at 220 V rated value  1 at 24 V rated value  2 at 24 V rated value  3 at 2 A  3 at 2 A  3 at 3 A  3 at 3 A  4 at 220 V rated value  3 at 3 at 3 A  3 at 3 at 3 at 3 A  4 at 3 at	number of poles	2	
number of NC contacts for main contacts  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	number of poles for main current circuit	2	
type of voltage  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A  32 A  32 A	number of NO contacts for main contacts	2	
operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 110 V rated value  — at 220 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A  • with 2 current paths in series at DC-1  — at 24 V rated value  32 A	number of NC contacts for main contacts	0	
• 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	type of voltage	DC	
<ul> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>■ with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>32 A</li> <li>■ with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>32 A</li> </ul>	operational current		
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>■ with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>32 A</li> <li>32 A</li> </ul>	• at 1 current path at DC-1		
<ul> <li>— at 220 V rated value</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>32 A</li> </ul>	— at 24 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 24 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 110 V rated value 32 A	— 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 DC-3 at DC-5	
— at 220 V rated value	32 A
— at 600 V rated value	21 A
— at 750 V rated value	7.5 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
operating frequency	
• at DC-1 maximum	1 500 1/h
• at DC-3 maximum	750 1/h
at DC-5 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of	
magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
at 60 Hz  apparent pick up power of magnet cell at AC	0.85 1.1
apparent pick-up power of magnet coil at AC	79 VA
• at 50 Hz	68 VA 95 VA
• at 60 Hz	MO VA
inductive power factor with closing power of the coil	
a at 50 Hz	0.83
• at 50 Hz	0.83 0.86
• at 60 Hz	0.83 0.86 0.79
at 60 Hz  apparent holding power of magnet coil at AC	0.83 0.86 0.79 11 VA
at 60 Hz  apparent holding power of magnet coil at AC     at 50 Hz	0.83 0.86 0.79 11 VA 10 VA
<ul> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	0.83 0.86 0.79 11 VA 10 VA 12 VA
apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  inductive power factor with the holding power of the coil	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28
apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  at 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29
<ul> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3
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	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29
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  at 60 Hz  arcing time  Auxiliary circuit	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms
apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  at 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  at 60 Hz  arcing time  Auxiliary circuit  number of NC contacts for auxiliary contacts	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms
apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  at 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  at 60 Hz  arcing time  Auxiliary circuit	0.83 0.86 0.79 11 VA 10 VA 12 VA 0.28 0.29 0.3 20 30 ms

• instantaneous contact	2
number of CO contacts for auxiliary contacts	0
identification number and letter for switching elements	22
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	5.6 A
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	O.E. A.
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 175 V rated value     at 125 V rated value	0.98 A
at 220 V rated value	0.48 A
at 600 V rated value	0.07 A
UL/CSA ratings	0.01 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A00071 000
design of the fuse link	
-	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	2 x 2NA 2020 (E0 A) in coring (7E0 \/ 2 kA)
with type of coordination in required  - with type of assignment 2 required	2 x 3NA3020 (50 A) in series (750 V, 3 kA) 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	gg. 16 A (500 V, 1 kA)
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward
inounting position	and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	85 mm
width	70 mm
depth	104 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	15 mm
— backwards	0 mm
— upwards	10 mm
downwarda	40
— downwards	10 mm
— downwards — at the side	10 mm 10 mm
— at the side	
<ul><li>— at the side</li><li>for grounded parts</li></ul>	10 mm
<ul><li>— at the side</li><li>for grounded parts</li><li>— forwards</li></ul>	10 mm 30 mm
<ul><li>— at the side</li><li>• for grounded parts</li><li>— forwards</li><li>— backwards</li></ul>	10 mm 30 mm 0 mm
<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> </ul>	10 mm 30 mm 0 mm 10 mm
<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul>	10 mm 30 mm 0 mm 10 mm
<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul>	10 mm 30 mm 0 mm 10 mm 10 mm
<ul> <li>— at the side</li> <li>• for grounded parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> </ul>	10 mm 30 mm 0 mm 10 mm 10 mm
<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 30 mm 0 mm 10 mm 10 mm 10 mm
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<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> </ul>	10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm

<ul> <li>for main current circuit</li> </ul>	screw-type terminals
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (2,5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.5 4 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (1 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	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
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00
Approvals Certificates	

**General Product Approval** 



Confirmation









**Functional Saftey Test Certificates** other

Type Examination Cer-Type Examination Cer-Type Test Certific-**Miscellaneous Special Test Certific-**Confirmation **tificate tificate** ates/Test Report

Environment Dangerous goods

**Transport Information Environmental Con-**

**firmations** 

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=3TC4417-0BP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0BP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BP6

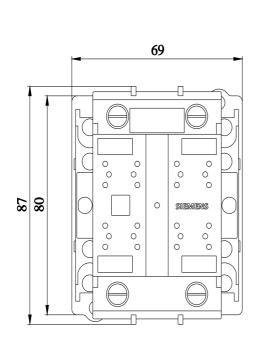
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

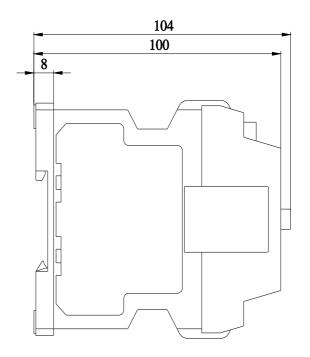
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4417-0BP6&lang=en

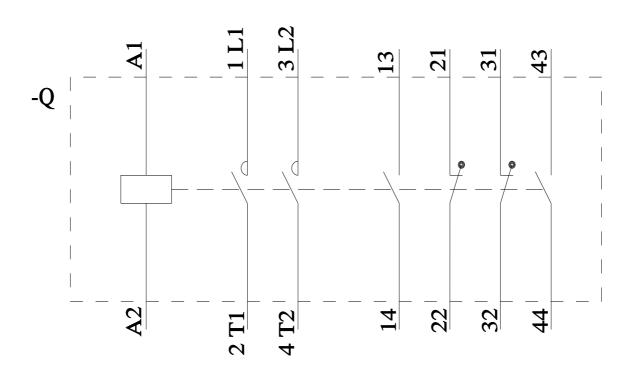
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0BP6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0BP6&objecttype=14&gridview=view1







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