## SIEMENS

## Data sheet

## 3TC4417-0AF4



Contactor, Size 2, 2-pole, DC-3 and 5, 32 A Auxiliary contacts 22 (2 NO + 2 NC) 110V DC DC operation

e 11	
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
auxiliary switch	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 DC	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	Blei - 7439-92-1 6,6'-Di-tert-butyl-2,2'-methylendi-p-cre - 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 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
<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	4 670
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	/30 //1
	PC
type of voltage of the control supply voltage	DC
type of voltage of the control supply voltage control supply voltage at DC	
type of voltage of the control supply voltage control supply voltage at DC • rated value	110 V
type of voltage of the control supply voltage control supply voltage at DC • rated value closing power of magnet coil at DC	110 V 10 W
type of voltage of the control supply voltage control supply voltage at DC • rated value closing power of magnet coil at DC holding power of magnet coil at DC	110 V 10 W 10 W
type of voltage of the control supply voltage control supply voltage at DC • rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	110 V 10 W 10 W 35 190 ms
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC	110 V 10 W 10 W 35 190 ms 10 25 ms
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time	110 V 10 W 10 W 35 190 ms
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms
type of voltage of the control supply voltage control supply voltage at DC • rated value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         • instantaneous contact	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 0
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 2 2 2 2 2
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 0
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 10 A 5.6 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 10 A 5.6 A 3.6 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	110 V 10 W 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 10 A 5.6 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 500 V rated value	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value <td>110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A</td>	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A 10 A 10 A
type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value <td>110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A</td>	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A
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type of voltage of the control supply voltage         control supply voltage at DC         • rated value         closing power of magnet coil at DC         holding power of magnet coil at DC         closing delay at DC         opening delay at DC         arcing time         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         • instantaneous contact         number of CO contacts for auxiliary contacts         identification number and letter for switching elements         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 42 V rated value         • at 43 V rated value         • at 42 V rated value         • at 10 V rated value <td>110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A</td>	110 V 10 W 35 190 ms 10 25 ms 20 30 ms 2 2 2 2 2 2 2 10 A 5.6 A 3.6 A 2.5 A 10 A

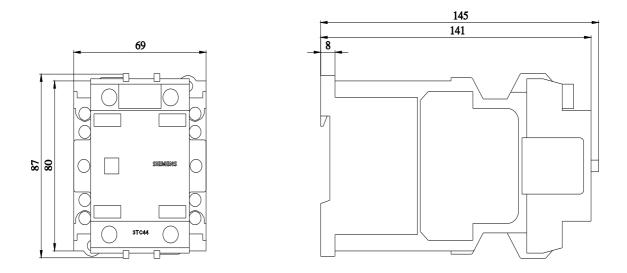
<ul> <li>for grounded parts         <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts         <ul> <li>forwards</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>Safety related data         <ul> <li>product function mirror contact according to IEC 60947-4-1</li> </ul> </li> <li>protection class IP on the front according to IEC 60529</li> <li>Certificates/ approvals</li> </ul>	30 mm         0 mm         10 mm         10 mm         10 mm         30 mm         0 mm         10 mm         2x (2,5 10 mm²)         2x (1.5 4 mm²)         2x (0.75 1.5 mm²)         2x (0.75 1.5 mm²)         Peoo	for the right and left
<ul> <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>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>minely stranded with core end processing</li> <li>Safety related data</li> <li>product function mirror contact according to IEC 60947-4-1</li> <li>protection class IP on the front according to IEC 60529</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1.5 4 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> )	ior the right and left
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> <li>backwards</li> <li>backwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>product function mirror contact according to IEC 60947-4-1</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1.5 4 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> ) 2x (0.75 1.5 mm <sup>2</sup> )	for the right and left
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>Safety related data</li> </ul>	0 mm 10 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1.5 4 mm2) 2x (0.75 1.5 mm2) Yes; One NC contact each must be connected in series f	for the right and left
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> )	
<ul> <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>backwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> )	
<ul> <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>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> ) 2x (1.5 4 mm <sup>2</sup> )	
<ul> <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>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> )	
<ul> <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>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> )	
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (2,5 10 mm <sup>2</sup> )	
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>backwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> type of connectable conductor cross-sections for main contacts	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals	
<ul> <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>backwards</li> <li>upwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 20 m	
<ul> <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>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm 20 m	
<ul> <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>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul> Connections/ Terminals	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm 10 mm 10 mm	
<ul> <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>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm 10 mm	
<ul> <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>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 10 mm 10 mm	
<ul> <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>	0 mm 10 mm 10 mm 10 mm 30 mm 10 mm 10 mm	
<ul> <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> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm 0 mm 10 mm	
<ul> <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> </ul>	0 mm 10 mm 10 mm 10 mm 30 mm	
<ul> <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>	0 mm 10 mm 10 mm 30 mm	
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> </ul>	0 mm 10 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul>	0 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul>	0 mm 10 mm 10 mm	
— forwards — backwards	0 mm	
— forwards		
	30 mm	
<ul> <li>for grounded parts</li> </ul>		
— at the side	10 mm	
- downwards	10 mm	
— upwards	10 mm	
— backwards	0 mm	
- forwards	15 mm	
<ul> <li>with side-by-side mounting</li> </ul>		
required spacing		
depth	145 mm	
width	70 mm	
height	85 mm	
side-by-side mounting	Yes	
fastening method	screw and snap-on mounting onto 35 mm DIN rail accord	ding to DIN EN 50022
	and backward by +/- 22.5° on vertical mounting surface; mounting surface	
mounting position	+/-22,5° rotation possible on vertical mounting surface; ca	an be tilted forward
Installation/ mounting/ dimensions		
for short-circuit protection of the auxiliary switch required	gG: 16 A (500 V, 1 kA)	
— 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)	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	$2 \times 2NA2020$ (50 A) in corios (750 V 2 kA)	
design of the fuse link		
Short-circuit protection		_
contact rating of auxiliary contacts according to UL	A600 / P600	
UL/CSA ratings		_
• at 600 V rated value	0.07 A	
• at 220 V rated value	0.48 A	
• at 125 V rated value	0.98 A	
• at 110 V rated value	1.14 A	
at 60 V rated value	5 A	
• at 48 V rated value	5 A	

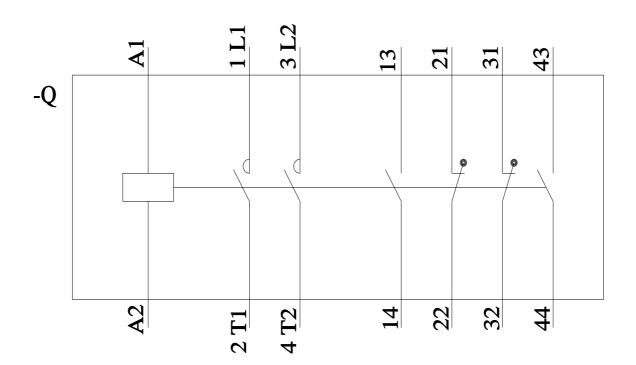
SP M		<u>Confirmation</u>		EAC	Type Examination Cer- tificate		
Functional Safety/Safety of Ma- chinery	Declaration of Conform	nity	Test Certificates				
<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	<u>Miscellaneous</u>	Special Test Certific- ate	Type Test Certific- ates/Test Report		
other	Dangerous Good						
Confirmation	Transport Information						
Further information							
Siemens has decided	to exit the Russian mark						
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         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=3TC4417-0AF4							
Service&Support (Ma	on.siemens.com/WW/CAXc nuals, Certificates, Chara .siemens.com/cs/ww/en/ps	cteristics, FAQs,)	en&mlfb=3TC4417-0AF4				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0AF4⟨=en							
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0AF4/char							

 https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0AF4/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4417-0AF4&objecttype=14&gridview=view1





8/11/2023 🖸

11/1/2023