## SIEMENS

## Data sheet

## 3TC5617-0LB4



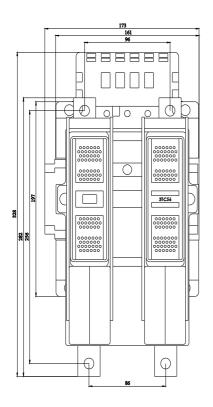
Contactor, size 12, 2-pole, DC-3 and 5, 400 A at 750 V Auxiliary contacts 21 (2NO + 1NC) 24V DC DC operation with varistor and series resistor Operating range 0.7 to 1.25 x US DC operation

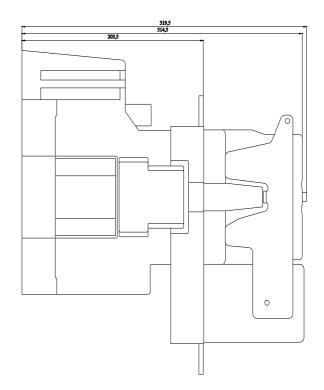
product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	12
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
insulation voltage rated value	1 000 V
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	660 V
shock resistance at rectangular impulse	
• at DC	12g / 5 ms, 5,6g / 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)	03/01/2017
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	400 A
— at 600 V rated value	400 A

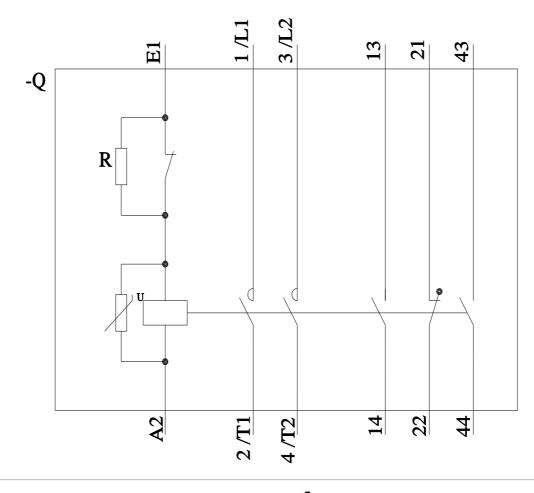
— at 750 V rated value	400 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	220 A
— at 110 V rated value	220 A
— at 220 V rated value	400 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	400 A
— at 600 V rated value	400 A
— at 750 V rated value	400 A
operating power	
• at DC-1	
— at 110 V rated value	44 kW
— at 220 V rated value	88 kW
— at 440 V rated value	176 kW
— at 750 V rated value	300 kW
● at DC-3 at DC-5	
— at 110 V rated value	35 kW
— at 220 V rated value	70 kW
— at 440 V rated value	140 kW
— at 600 V rated value	200 kW
— at 750 V rated value	250 kW
operating frequency	
• at DC-1 maximum	1 000 1/h
• at DC-3 maximum	600 1/h
● at DC-5 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
design of the surge suppressor	with varistor
closing power of magnet coil at DC	86 W
holding power of magnet coil at DC	86 W
closing delay at DC	110 400 ms
opening delay at DC	40 110 ms
arcing time	20 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	2 2
instantaneous contact     number of CO contacts for auxiliary contacts	0
	21
identification number and letter for switching elements 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
<ul> <li>at 110 V rated value</li> </ul>	8 A
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	8 A 6 A
• at 125 V rated value	6 A
<ul><li>at 125 V rated value</li><li>at 220 V rated value</li></ul>	6 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	6 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13	6 A 2 A 0.4 A

• at 60 V rated value	5 A	
<ul> <li>at 110 V rated value</li> </ul>	2.4 A	
• at 125 V rated value	2.1 A	
• at 220 V rated value	1.1 A	
• at 600 V rated value	0.21 A	
JL/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>		
<ul> <li>— with type of coordination 1 required</li> </ul>	2 x 3NE1330-4D (315 A) parallel (750 V, 12 kA)	
<ul> <li>— with type of assignment 2 required</li> </ul>	2 x 3NE1330-4D (315 A) parallel (750 V, 12 kA)	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 16 A (500 V, 1 kA)	
nstallation/ mounting/ dimensions		
mounting position	+/-22,5° rotation possible on vertical mounting surface; c and backward by +/- 22.5° on vertical mounting surface; mounting surface	
fastening method	screw fixing	
side-by-side mounting	Yes	
height	281 mm	
width	235 mm	
depth	314 mm	
required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	25 mm	
— backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
<ul> <li>for grounded parts</li> </ul>		
— forwards	100 mm	
— backwards	0 mm	
— upwards	10 mm	
— at the side	10 mm	
— downwards	10 mm	
<ul> <li>for live parts</li> </ul>		
— forwards	100 mm	
— backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
Connections/ Terminals		
type of electrical connection	screw-type terminals	
for main current circuit	screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid or stranded	2x (1 2.5 mm²)	
- finely stranded with core end processing	2x (0.75 1.5 mm²)	
Safety related data		
product function mirror contact according to IEC 60947-4-1	Yes	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover	
Certificates/ approvals		
General Product Approval		Functional Safety/Safety of Ma chinery

SP CM	CCC CCC	<u>Confirmation</u>		EAC	<u>Type Examination Cer-</u> <u>tificate</u>			
Functional Safety/Safety of Ma- chinery	Declaration of Conform	ity	Test Certificates					
<u>Type Examination Cer-</u> <u>tificate</u>	C C EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>			
other	Dangerous Good							
<u>Confirmation</u>	Transport Information							
Further information								
	to exit the Russian marke							
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https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC5617-0LB4								
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