SIEMENS

product designation

Data sheet 3TC5617-0LJ8

Contactor

Contactor, size 12, 2-pole, DC-3 and 5, 400 A at 750 V Auxiliary contacts 21 (2 NO + 1 NC) 72 V DC DC operation with varistor and series resistor Operating range 0.7 to 1.25 x US DC operation



product type designation	3TC
General technical data	
size of contactor	12
product extension	
 function module for communication 	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)	
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)	03/01/2017
Ambient conditions	
ambient temperature	
 during operation 	-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	
• at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
with 2 current paths in series at DC-1	
— 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
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	220 A
— at 110 V rated value	220 A
— at 220 V rated value	400 A
 with 2 current paths in series at DC-3 at DC-5 	
— 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	72 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
• instantaneous contact	2
number of CO contacts for auxiliary contacts	0
identification number and letter for switching elements	21
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	8 A
• at 125 V rated value	6 A
• at 220 V rated value	2 A
at 600 V rated value	0.4 A
operational current at DC-13	
 at 24 V rated value 	10 A
at 24 V rated valueat 48 V rated value	10 A 5 A

at 60 V rated value	5 A	
• at 110 V rated value	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	
UL/CSA ratings		
contact rating of auxiliary contacts according to UL	A600 / P600	
Short-circuit protection		
design of the fuse link		
 for short-circuit protection of the main circuit 		
 — with type of coordination 1 required 	2 x 3NE1330-4D (315 A) parallel (750 V, 12 kA)	
 — with type of assignment 2 required 	2 x 3NE1330-4D (315 A) parallel (750 V, 12 kA)	
• for short-circuit protection of the auxiliary switch required	gG: 16 A (500 V, 1 kA)	
Installation/ mounting/ dimensions		
mounting position	+/-22,5° rotation possible on vertical mounting surface; cand 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		
 with side-by-side mounting 		
— forwards	25 mm	
— backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
for grounded parts		
— forwards	100 mm	
— backwards	0 mm	
— upwards	10 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— 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	
for auxiliary and control circuit	screw-type terminals	
type of connectable conductor cross-sections	7,	
• for auxiliary contacts		
— 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		
touch protection on the front according to IEC 60529	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with cover	
Certificates/ approvals	ingor sare, for vertical contact from the from with cover	
General Product Approval		Functional Safety/Safety of Ma- chinery





Confirmation





Type Examination Certificate

Functional
Safety/Safety of Ma-
chinery

Declaration of Conformity

Test Certificates

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous

other

Dangerous Good

Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/qlobal/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=3TC5617-0LJ8

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5617-0LJ8

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0LJ8

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

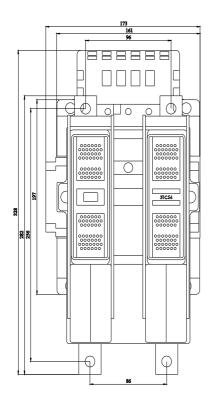
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5617-0LJ8&lang=en

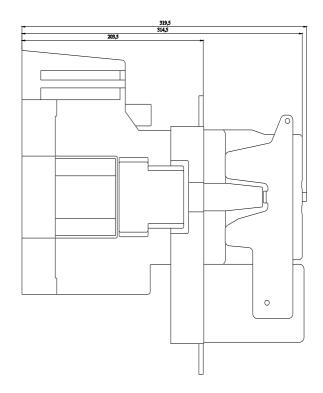
Characteristic: Tripping characteristics, I2t, Let-through current

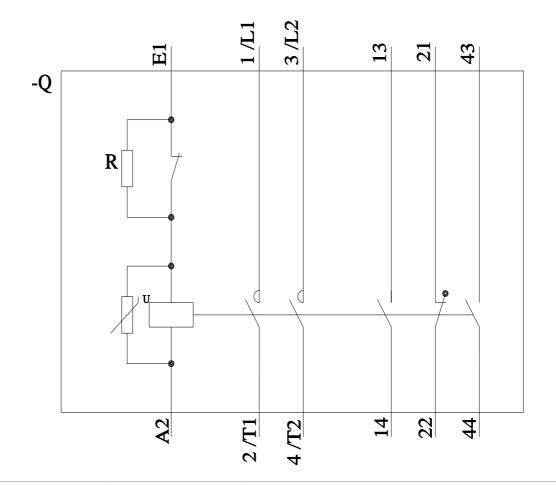
https://support.industry.siemens.com/cs/ww/en/ps/3TC5617-0LJ8/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5617-0LJ8&objecttype=14&gridview=view1







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