SIEMENS

Data sheet

3TC4417-0LB4-Z B01



Contactor size 2, 2-pole for railway applications DC-3 and 5, 7.5 A at 750 V Auxiliary contacts 21 (2 NO + 1 NC) Operating range 0.7 to 1.25 x US connected to varistor DC magnet system 24 V DC Upright mounting position

product designation	Contactor
product designation	3TC
General technical data	
size of contactor	2
product extension	
function module for communication	No
auxiliary switch	No
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)	
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
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	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
— 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 1 current path at DC-3 at DC-5 	
— 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-3 at DC-5 	
— 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	DC
control supply voltage at DC	
control supply voltage at DC rated value 	24 V
rated value	24 V with varistor
rated value design of the surge suppressor	with varistor
rated value design of the surge suppressor closing power of magnet coil at DC	with varistor 48 W
rated value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC	with varistor 48 W 13 W
rated value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	with varistor 48 W 13 W 35 190 ms
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• at 60 V rated value	5 A
 at 110 V rated value 	1.14 A
 at 125 V rated value 	0.98 A
 at 220 V rated value 	0.48 A
• at 600 V rated value	0.07 A
JL/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 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)
nstallation/ mounting/ dimensions	
mounting position	standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
side-by-side mounting	Yes
height	
width	82 mm
depth	
required spacing	
with side-by-side mounting	
with side-by-side mounting — forwards	15 mm
— bolwards	0 mm
	10 mm
— upwards — downwards	10 mm
— at the side	10 mm
for grounded parts	00
— forwards	30 mm
— backwards	0 mm
— upwards	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
— 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 for main contacts	
 solid or stranded 	2x (2,5 10 mm²)
 finely stranded with core end processing 	2x (1.5 4 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (1 2.5 mm²)
- finely stranded with core end processing	2x (0.75 1.5 mm²)
afety 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
protection class IP on the front according to IEC 60529	IP00
ertificates/ approvals	
urther information	
Siemens has decided to exit the Russian market (see here).	
https://press.siemens.com/global/en/pressrelease/siemens-wind-compared siemens is working on the renewal of the current EAC certific	cates. If the EAC certification if you intend to import or offer to supply these products to a

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=3TC4417-0LB4-Z B01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4417-0LB4-Z B01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0LB4-Z B01

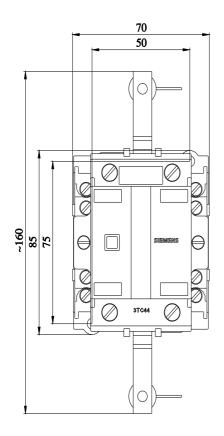
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4417-0LB4-Z B01&lang=en

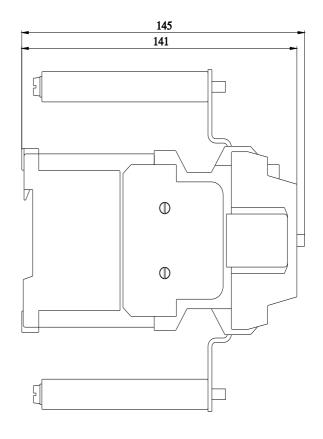
Characteristic: Tripping characteristics, I2t, Let-through current

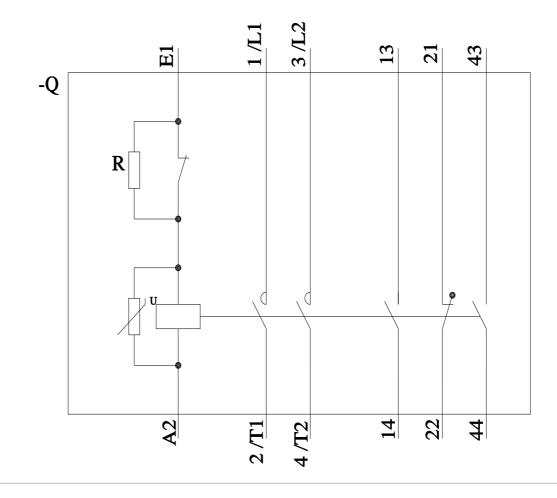
https://support.industry.siemens.com/cs/ww/en/ps/3TC4417-0LB4-Z B01/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Se earch&mlfb=3TC4417-0LB4-Z B01&objecttype=14&gridview=view1







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