SIEMENS

Data sheet

3TC4817-0LV4



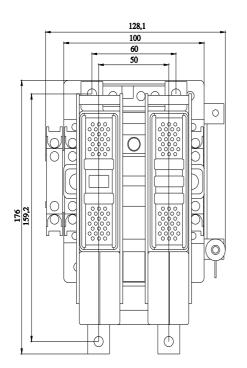
Contactor, Size 4, 2-pole, DC-3 and 5, 75 A at 750 V Auxiliary contacts 21 (2NO + 1NC) 36 V DC DC operation with varistor and series resistor Operating range 0.7 to 1.25 x US

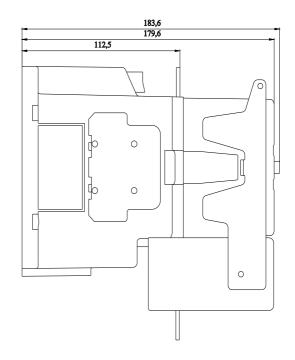
product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	4
product extension	
 function module for communication 	No
auxiliary switch	No
insulation voltage rated value	800 V
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	300 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 5g / 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	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
— at 440 V rated value	75 A
— at 600 V rated value	75 A

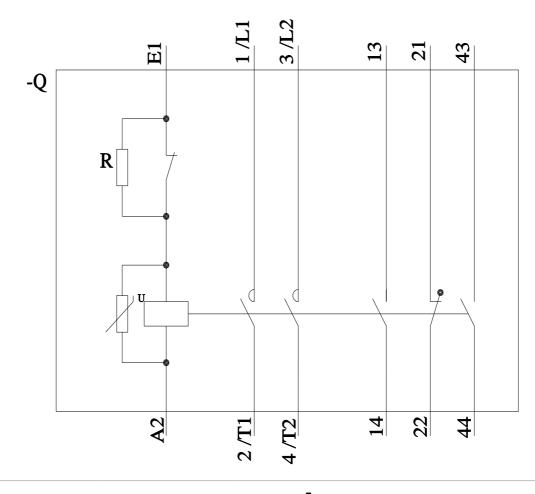
— at 750 V rated value	75 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	75 A
— at 110 V rated value	75 A
— at 220 V rated value	75 A
— at 440 V rated value	75 A
— at 600 V rated value	75 A
— at 750 V rated value	75 A
operating power	
• at DC-1	
— at 110 V rated value	8.2 kW
— at 220 V rated value	16.5 kW
— at 440 V rated value	33 kW
— at 750 V rated value	56 kW
• at DC-3 at DC-5	
— at 110 V rated value	6.5 kW
— at 220 V rated value	13 kW
— at 440 V rated value	27 kW
— at 600 V rated value	38 kW
— at 750 V rated value	45 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	36 V
	36 V with varistor
rated value	
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 19 W
rated value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC	with varistor 19 W 19 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 19 W 19 W 90 380 ms
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 opening delay at DC	with varistor 19 W 19 W 90 380 ms 17 28 ms
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 opening delay at DC arcing time	with varistor 19 W 19 W 90 380 ms 17 28 ms
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Certificates/ approvals		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover	
product function mirror contact according to IEC 60947-4-1	Yes	
Safety related data		
 finely stranded with core end processing 	2x (0.75 1.5 mm²)	
— solid or stranded	2x (1 2.5 mm ²)	
 for auxiliary contacts 		
type of connectable conductor cross-sections		
 for auxiliary and control circuit 	screw-type terminals	
 for main current circuit 	screw-type terminals	
type of electrical connection	screw-type terminals	
Connections/ Terminals		
— at the side	10 mm	
— downwards	10 mm	
— upwards	10 mm	
— backwards	0 mm	
— forwards	55 mm	
• for live parts		
— downwards	10 mm	
— at the side	10 mm	
— upwards	10 mm	
— backwards	0 mm	
— forwards	55 mm	
 for grounded parts 		
— at the side	10 mm	
— downwards	10 mm	
— upwards	10 mm	
— backwards	0 mm	
— forwards	20 mm	
 with side-by-side mounting 		
required spacing		
depth	184 mm	
width	143 mm	
height	177.5 mm	
side-by-side mounting	Yes	
fastening method	screw fixing	
mounting position	and backward by +/- 22.5° on vertical mounting surface; mounting surface	
mounting position	+/-22,5° rotation possible on vertical mounting surface; c	an he tilted forward
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions 	gG: 16 A (500 V, 1 kA)	
— with type of assignment 2 required	2 x 3NA31 (63 A) in series (750 V, 5 kA)	
- with type of coordination 1 required	2 x 3NA31 (160 A) in series (750 V, 5 kA)	
for short-circuit protection of the main circuit		
design of the fuse link		
Short-circuit protection		_
contact rating of auxiliary contacts according to UL	A600 / P600	
JL/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	

SP Car	() CCC	<u>Confirmation</u>	GAN ® UR	EHC	<u>Type Examination Cer-</u> <u>tificate</u>			
Functional Safety/Safety of Ma- chinery	Declaration of Conformit	у	Test Certificates					
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<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								
Siemens has decided to exit the Russian market (see here). 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								
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https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0LV4 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4817-0LV4⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0LV4/char								
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4817-0LV4&objecttype=14&gridview=view1								







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