SIEMENS

Data sheet

3TC4817-0BM0



Contactor, Size 4, 2-pole, DC-3 and 5, 75 A Auxiliary switch 22 (2 NO + 2 NC) 220 V AC 50 Hz/264 V AC 60 Hz AC operation

product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	4
product extension	
 function module for communication 	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 AC	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 	-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	
 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
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value75 A- at 250 V rated value75 A- at 250 V rated value75 A- at 450 V rated value75 A- at 450 V rated value75 A- at 750 V rated value75 A- at 750 V rated value75 A- at 750 V rated value82 kW- at 750 V rated value82 kW- at 250 V rated value85 kW- at 250 V rated value85 kW- at 250 V rated value85 kW- at 250 V rated value65 kW- at 250 V rated value27 kW- at 250 V rated value27 kW- at 250 V rated value26 kW- at 250 V rated value27 kW- at 250 V rated value26 kW- at 250 V rated value20 kW- at 250 V rated value20 kW- at 550 V rated value20 kW- at 560 V rated value36 kW- at 560 V rated value<	— 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
− af 800 Y ratied value 75 Å − af 750 V ratied value 75 Å • af 10 C-1 - • af 10 C-1 - - af 230 V ratied value 15 5 KV - af 230 V ratied value 15 5 KV - af 230 V ratied value 56 KV - af 200 V ratied value 56 KV - af 200 V ratied value 56 KV - af 200 V ratied value 38 KV - af 200 V ratied value 300 Th - af 200 V ratied value 200 V - af 500 V ratied value 200 V - af 500 K ratied value 200 V - af 50 Fiz 600 Th - af 50 Fiz 300 VA - af 50 Fiz 300 VA - af 50 Fiz 365 VA - af 50 Fiz <td>— at 220 V rated value</td> <td>75 A</td>	— at 220 V rated value	75 A
−a 1730 V rated value 76 Å operating power F −at 110 V rated value 82 W −at 44 00 V rated value 83 W −at 44 00 V rated value 33 W −at 44 00 V rated value 33 W −at 44 00 V rated value 33 W −at 41 00 V rated value 65 KW −at 41 00 V rated value 65 KW −at 44 00 V rated value 65 KW −at 44 00 V rated value 65 KW −at 44 00 V rated value 27 KW −at 44 00 V rated value 27 KW −at 750 V rated value 26 KW −at 750 V rated value 26 KW operating frequency -at 600 Th −at 150 V rated value 1000 Th ott DC-5 maximum 600 Th ott DC-5 maximum <td>— at 440 V rated value</td> <td>75 A</td>	— at 440 V rated value	75 A
operating power• if UC-1- at 110 V rated value- at 220 V rated value- at 220 V rated value- at 420 V rated value- at 420 V rated value- at 420 V rated value- at 410 V rated value- at 420 V rated value- at 750 V rated value- at 600 V rated value- at 750 V rated value- at 60 Hz- at 50 Hz- at 60 Hz	— at 600 V rated value	75 A
- at 100-1 82 kW - at 100 V rated value 82 kW - at 440 V rated value 33 kW - at 440 V rated value 33 kW - at 100 V rated value 56 kW - at 100 V rated value 65 kW - at 100 V rated value 65 kW - at 100 V rated value 65 kW - at 100 V rated value 27 kW - at 400 V rated value 28 kW - at 400 V rated value 28 kW - at 50 V rated value 28 kW - at 50 V rated value 28 kW operating frequency 45 kW - at 100 V rated value 45 kW operating frequency 45 kW - at 100 V rated value 20 V - at 100 V rated value 00 VA - at 100 V rated value 00 VA - at 100 V rated value 00 VA - at 100 V rated value	— at 750 V rated value	75 A
- al 100 Y rated value82.kW- al 220 Y rated value165.kW- al 750 V rated value56.kW- al 750 V rated value66.kW- al 110 Y rated value65.kW- al 120 V rated value13.kW- al 220 V rated value13.kW- al 420 V rated value38.kW- al 420 V rated value000 1/h- al 50 V rated value600 1/h- al 10 C-1 maximum600 1/h- al 10 C-1 maximum600 1/h- al 10 C-1 raximum220 V- al 10 Hz rated value220 V- al 01 Hz220 V- al 01 Hz0.8 1.1- al 01 Hz0.8 1.1- al 01 Hz300 VA- al 01 Hz300 VA- al 01 Hz300 VA- al 01 Hz0.8 1.1- al 01 Hz0.5 al 01 Hz0.5 al 01 Hz0.5 al 01 Hz0.5 al 01 Hz0.4 al 01 Hz0.2 al 01 Hz0.2 al 01 Hz0.2 al 01 Hz		
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	— at 220 V rated value	
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number of CO contacts for auxiliary contacts0identification number and letter for switching elements22operational current at AC-12 maximum10 Aoperational current at AC-155.6 A• at 230 V rated value5.6 A• at 400 V rated value3.6 A	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 35 VA 0.24 0.24 0.24 0.26 20 30 ms
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operational current at AC-15 • at 230 V rated value • at 400 V rated value 5.6 A 3.6 A	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Contacts for auxiliary contacts • instantaneous contact • instantaneous contact • instantaneous contact	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 35 VA 0.24 0.24 0.24 0.26 20 30 ms 2 2 2 2
at 230 V rated value 5.6 A 3.6 A	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • instantaneous contacts • instantaneous contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact number of CO contacts for auxiliary contacts	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 26 VA 35 VA 0.24 0.24 0.26 20 30 ms 2 2 2 2 2 0
• at 400 V rated value 3.6 A	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 60 Hz inductive power factor with the holding power of the coil • at 60 Hz inductive power factor with the nolding power of the coil • at 60 Hz 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	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 35 VA 0.24 0.24 0.24 0.26 20 30 ms 2 2 2 2 2 2 2 2 2
	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 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	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 35 VA 0.24 0.24 0.24 0.26 20 30 ms 2 2 2 2 2 2 2 2 2
at 500 V rated value 2.5 A	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 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 operati	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 35 VA 0.24 0.24 0.26 20 30 ms 2 2 2 2 2 2 10 A 5.6 A
	operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz acting 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 • instan	0.8 1.1 300 VA 300 VA 365 VA 0.5 0.5 0.45 26 VA 26 VA 26 VA 35 VA 0.24 0.24 0.26 20 30 ms 2 2 2 2 2 2 10 A 5.6 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	3.2 A
• at 125 V rated value	2.5 A
 at 220 V rated value 	0.9 A
 at 600 V rated value 	0.22 A
operational current at DC-13	
 at 24 V rated value 	10 A
• at 48 V rated value	5 A
• 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
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 3NA31 (160 A) in series (750 V, 5 kA)
— with type of assignment 2 required	2 x 3NA31 (63 A) in series (750 V, 5 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; can be tilted forward
mounting position	and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal
	mounting surface
fastening method	screw fixing
 side-by-side mounting 	Yes
height	177.5 mm
width	100 mm
depth	156 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	55 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
 for live parts 	
— forwards	55 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 auxiliary contacts	
solid or stranded	2x (1 2.5 mm²)
 — solid of stranded — finely stranded with core end processing 	
Safety related data	2x (0.75 1.5 mm²)

product function mirror contact according t	o IEC 60947-4-1 Yes	8		
protection class IP on the front accordin	ng to IEC 60529 IPC	0; IP20 with box terminal/co		
touch protection on the front according	to IEC 60529 fing	ger-safe, for vertical contact	r	
Certificates/ approvals				
General Product Approval				Functional Safety/Safety of Ma- chinery
Confirmation			EHC	<u>Type Examination Cer</u> tificate
Functional Safety/Safety of Ma- chinery	Conformity	Test Certificates		
Type Examination Cer- tificate UK	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report
other Dangerous Goo	bd			
Confirmation Transport Inform	ation			

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

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=3TC4817-0BM0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4817-0BM0

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0BM0

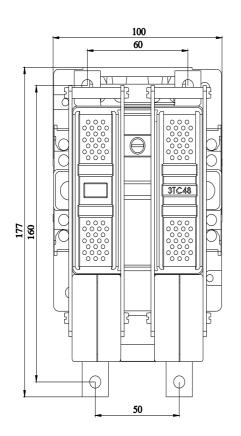
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

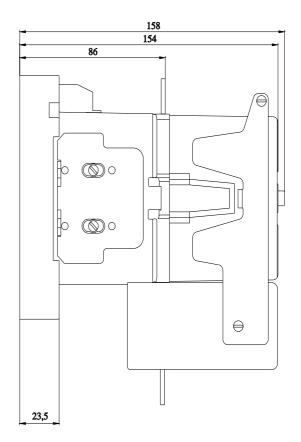
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4817-0BM0&lang=en

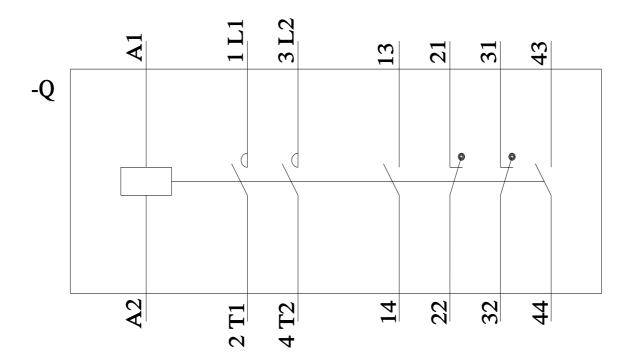
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0BM0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4817-0BM0&objecttype=14&gridview=view1







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