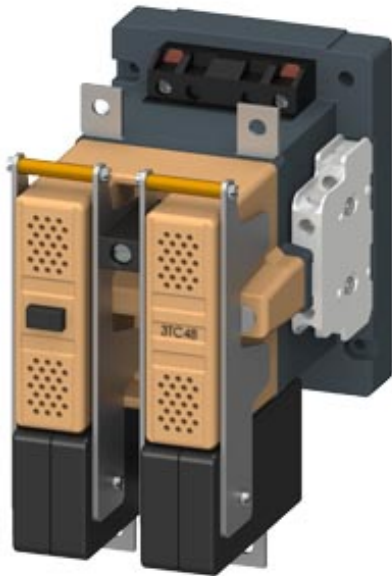


Contactor size 4, 2-pole DC-3 and 5, 75 A Auxiliary switch 22 (2 NO + 2 NC) Alternating current operation 48 V AC 50 Hz/58 V AC 60 Hz



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 safe isolation between coil and main contacts acc. to EN 60947-1	300 V
Protection class IP	IP00
• on the front	IP00
• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	10g / 5 ms, 5g / 10 ms
Mechanical service life (switching cycles)	
• of contactor typical	10 000 000
• of the contactor with added auxiliary switch block typical	10 000 000

Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	K
Reference code acc. to DIN EN 81346-2	Q
Reference code acc. to DIN EN 61346-2	Q

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	AC
Operating current <ul style="list-style-type: none"> with 2 current paths in series at DC-1 <ul style="list-style-type: none"> at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	75 A 75 A 75 A 75 A 75 A
Operating current with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	75 A 75 A 75 A 75 A 75 A
Operating power at DC-1 <ul style="list-style-type: none"> at 110 V rated value at 220 V rated value at 440 V rated value at 750 V rated value 	8.2 kW 16.5 kW 33 kW 56 kW
Operating frequency <ul style="list-style-type: none"> at DC-1 maximum at DC-3 maximum at DC-5 maximum 	1 000 1/s 600 1/s 600 1/s

Control circuit/ Control

Type of voltage of the control supply voltage	AC
Control supply voltage at AC <ul style="list-style-type: none"> at 50 Hz rated value at 60 Hz rated value 	48 V 58 V
Operating range factor control supply voltage rated value of magnet coil at AC <ul style="list-style-type: none"> at 50 Hz 	0.8 ... 1.1
Apparent pick-up power of magnet coil at AC	300 V·A

<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	300 V·A 365 V·A
Inductive power factor with closing power of the coil <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	0.5 0.5 0.45
Apparent holding power of magnet coil at AC <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	26 V·A 26 V·A 35 V·A
Inductive power factor with the holding power of the coil <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	0.24 0.24 0.26
Arcing time	20 ... 30 ms

Auxiliary circuit	
Number of NC contacts for auxiliary contacts <ul style="list-style-type: none"> • instantaneous contact 	2 2
Number of NO contacts for auxiliary contacts <ul style="list-style-type: none"> • instantaneous contact 	2 2
Number of CO contacts <ul style="list-style-type: none"> • for auxiliary contacts 	0
Identification number and letter for switching elements	22
Operating current at AC-12 maximum	10 A
Operating current at AC-15 <ul style="list-style-type: none"> • at 230 V rated value • at 400 V rated value • at 500 V rated value 	5.6 A 3.6 A 2.5 A
Operating current at DC-12 <ul style="list-style-type: none"> • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value 	10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A
Operating current at DC-13 <ul style="list-style-type: none"> • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value 	10 A 5 A 5 A 1.14 A 0.98 A 0.48 A

<ul style="list-style-type: none"> • at 600 V rated value 	0.07 A
Contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)

UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / P600

Short-circuit protection	
Design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 16 A (500 V, 1 kA)

Installation/ mounting/ dimensions	
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
Mounting type	screw fixing
<ul style="list-style-type: none"> • Side-by-side mounting 	Yes
Height	177.5 mm
Width	100 mm
Depth	156 mm
Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side 	20 mm 0 mm 10 mm 10 mm 10 mm 55 mm 0 mm 10 mm 10 mm 10 mm 55 mm 0 mm 10 mm 10 mm 10 mm

Connections/ Terminals

Type of electrical connection	screw-type terminals
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— single or multi-stranded	2x (1 ... 2,5 mm ²)
— finely stranded with core end processing	2x (0,75 ... 2,5 mm ²)

Safety related data

Protection against electrical shock	finger-safe only with terminal cover
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Certificates/ approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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[Type Examination Certificate](#)



Declaration of Conformity	Test Certificates	Marine / Ship- ping	other
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[Miscellaneous](#)

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC4817-0BH0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4817-0BH0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0BH0>

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

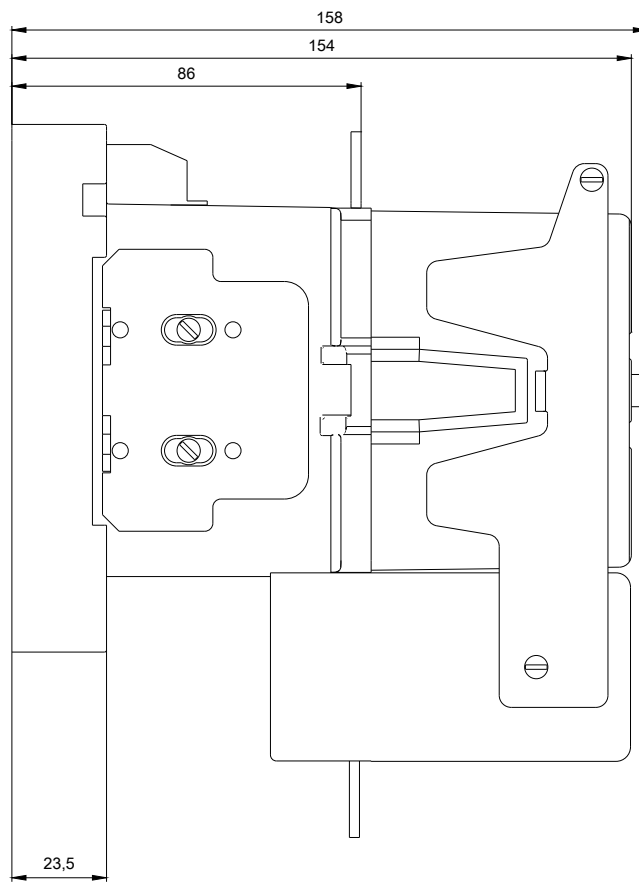
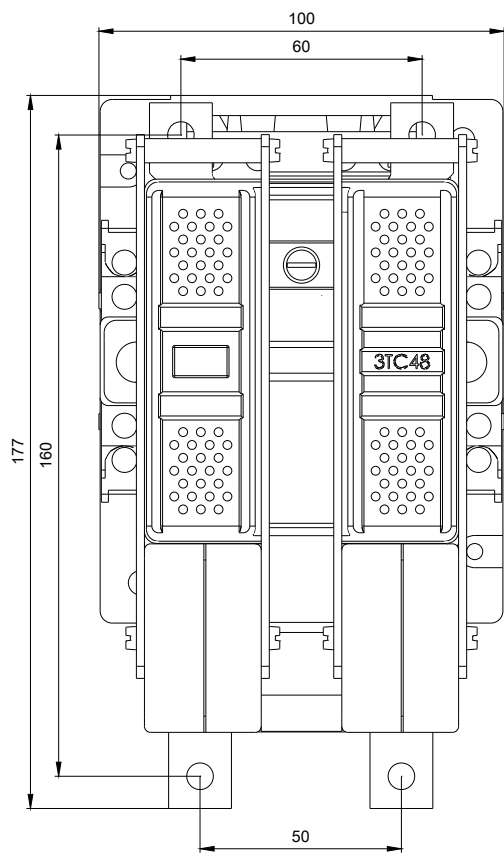
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC4817-0BH0&lang=en

Characteristic: Tripping characteristics, I^t, Let-through current

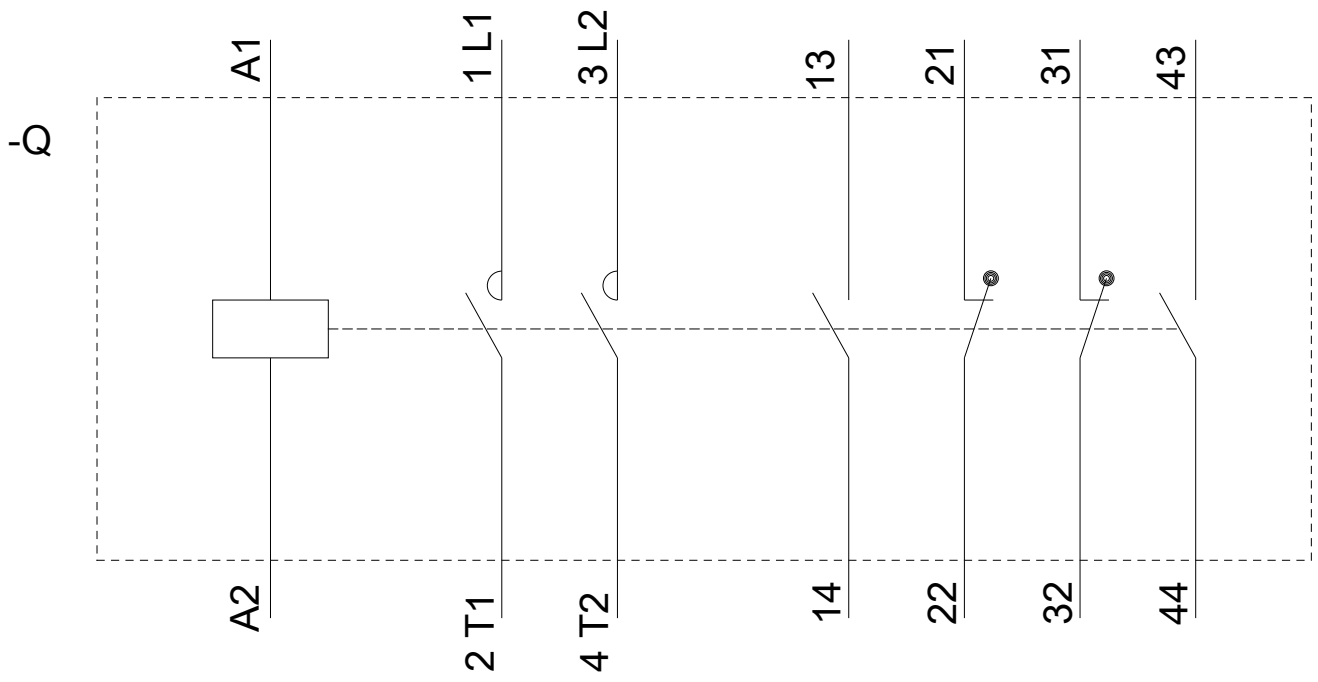
<https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0BH0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4817-0BH0&objecttype=14&gridview=view1>



W6.994; 3TC4817-0B..



last modified:

09/12/2019