## **SIEMENS**

Data sheet 3TC4817-0LF4-Z B01



Contactor size 4, 2-pole DC-3 and 5, 75 A at 750 V Auxiliary contacts 21 (2 NO + 1 NC) Operating range 0.7 to 1.25 x US connected to varistor Direct current operation DC magnet system 110 V DC Mounting position vertical

product designation	Contactor
product type designation	3TC
General technical data	
size of contactor	4
product extension	
<ul> <li>function module for communication</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	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
SVHC substance name	Lead - 7439-92-1
Weight	4.2 kg
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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 DC-3 at DC-5 - at 220 V rated value	— at 600 V rated value	75 A
	— at 750 V rated value	75 A
	• at DC-3 at DC-5	
■ 175 V rated value	— at 220 V rated value	75 A
• at 1 current path at DG-3 at DC-5  — at 24 V rated value — at 220 V rated value — 75 A — at 24 V rated value — 75 A — at 24 V rated value — 75 A — at 24 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 220 V rated value — 75 A — at 75 V rated value — 75 A — at 75 V rated value — 15 S V rated value — 16 S V rated value — 17 S V rated value — 18 S V V rated value — 19	— at 600 V rated value	75 A
	— at 750 V rated value	75 A
	• at 1 current path at DC-3 at DC-5	
### 200 Fraind value  ### 2014 Fraind value  ### 2015 Fraind value	— at 24 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 200 V rated value 75 A     — at 300 V rated value 75 A     — at 500 V rated value 75 A     — at 500 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 15.5 kW     — at 750 V rated value 56 kW     — at 750 V rated value 56 kW     — at 750 V rated value 56 kW     • at DC-3 at DC-5     — at 110 V rated value 56 kW     • at DC-3 at DC-5     — at 110 V rated value 13 kW     — at 220 V rated value 13 kW     — at 200 V rated value 13 kW     — at 200 V rated value 27 kW     — at 300 V rated value 38 kW     — at 200 V rated value 45 kW     — at 200 V rated value 45 kW     — at DC-1 maximum 5600 tfh     • at DC-5 maximum 600 tfh     • at 200 V rated value 10 DC 19 W     • at 300 V rated value 10 DC 19 W     • at 300 V rated value 10 DC 19 W     • at 300 V rated value 10 DC 19 W     • at 300 V rated value 3.6 A	— at 110 V rated value	75 A
	— at 220 V rated value	75 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	75 A
at 440 V rated value 75 A - at 500 V rated value 75 A - at 750 V rated value 8.2 kW - at 750 V rated value 16.5 kW - at 220 V rated value 33 kW - at 750 V rated value 33 kW - at 750 V rated value 55 kW - at 750 V rated value 55 kW - at 750 V rated value 13 kW - at 750 V rated value 27 kW - at 220 V rated value 27 kW - at 200 V rated value 33 kW - at 200 V rated value 27 kW - at 500 V rated value 35 kW - at 200 V rated value 45 kW - at 200 V rated value 50 kW - at 400 V rated value 50 kW - at 500 V rated value 50 kW - at 500 V rated	— at 110 V rated value	75 A
	— at 220 V rated value	75 A
A	— at 440 V rated value	75 A
at DC-1	— at 600 V rated value	75 A
* at DC-1	— at 750 V rated value	75 A
at 110 V rated value	operating power	
	• at DC-1	
at 440 V rated value	— at 110 V rated value	8.2 kW
- at 750 V rated value  • at DC-3 at DC-5  - an 110 V rated value  - at 220 V rated value  - at 240 V rated value  - at 440 V rated value  - at 600 V rated value  - at 600 V rated value  - at 750 V rated value  - at 750 V rated value  - at 750 V rated value  - at 100-3 maximum  • at DC-3 maximum  • at DC-3 maximum  • at DC-5 maximum  • boot 1/h  • at DC-5 maximum  • at DC-5 maximum  • boot 1/h	— at 220 V rated value	16.5 kW
	— at 440 V rated value	33 kW
- at 110 V rated value	— at 750 V rated value	56 kW
at 220 V rated value at 440 V rated value at 800 V rated value at 800 V rated value at 750 V rated value at DC-3 maximum at DC-3 maximum at DC-3 maximum 600 1/h at DC-5 maximum 600 1/h at 200 V rated value at 24 V rated value at 24 V rated value at 200 V rated value	• at DC-3 at DC-5	
at 440 V rated value at 750 V rated value  operating frequency  • at DC-1 maximum •- at DC-3 maximum •- at DC-5 maximum •- at AC-15 •- at 230 V rated value •- at 500 V rated value •- at 400 V rated value •- at 500 V rated value	— at 110 V rated value	6.5 kW
	— at 220 V rated value	13 kW
operating frequency  • at DC-1 maximum  • at DC-5 maximum  • DC  control supply voltage at DC rated value  • 110 V  • design of the surge suppressor  • with varistor  closing power of magnet coil at DC  • 19 W  • locising power of magnet coil at DC  • 19 W  • closing delay at DC  • poening delay at DC  • poening delay at DC  • poening delay at DC  • instantaneous contact  • a to Contacts for auxillary contacts  • instantaneous contact  • instantaneous contact  • a to Contacts for auxillary contacts  • instantaneous contact  • a to Contacts for auxillary contacts  • instantaneous contact  • a to Contacts for auxillary contacts  • a to Contact for auxillary contacts  •	— at 440 V rated value	27 kW
operating frequency  • at DC-3 maximum • at DC-5 maximum  Control circuit/ Control  type of voltage of the control supply voltage  Control supply voltage at DC rated value  110 V  design of the surge suppressor with varistor closing power of magnet coil at DC 19 W  holding power of magnet coil at DC 19 W  closing delay at DC 90 380 ms opening delay at DC 17 28 ms arcing time 20 30 ms  Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact 1 number of NO contacts for auxiliary contacts 2 instantaneous contact 2 number of OC contacts for auxiliary contacts 2 instantaneous contact 2 number of CC contacts for auxiliary contacts 2 coperational current at AC-12 maximum 10 A  operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 450 V rated value • at 48 V rated value • at 40 V rated value • at 48 V rated value • at 60 V rated value	— at 600 V rated value	38 kW
at DC-3 maximum at DC-3 maximum boot 1/h at DC-5 maximum boot 1/h control circuit/ Control  type of voltage of the control supply voltage control supply voltage at DC rated value being of the surge suppressor closing power of magnet coil at DC bolding power of magnet coil at DC bolding power of magnet coil at DC booking delay at DC copening delay at DC copening delay at DC copening delay at DC contacts for auxiliary contacts  arcing time copening delay at DC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts instantaneous contact 2 number of NO contacts for auxiliary contacts intentification number and letter for switching elements coperational current at AC-12 maximum coperational current at AC-15 at 230 V rated value at 500 V rated value at 500 V rated value at 48 V rated value at 60 V rated value	— at 750 V rated value	45 kW
at DC-3 maximum at DC-5 maximum both to at DC-1 maxim	operating frequency	
at DC-5 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC rated value  design of the surge suppressor  closing power of magnet coil at DC  holding power of magnet coil at DC  19 W  holding power of magnet coil at DC  19 W  closing delay at DC  opening delay at DC  opening delay at DC  17 28 ms  arcing time  20 30 ms  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  oldentification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 5.6 A  at 400 V rated value  at 48 V rated value  at 60 V rated value	• at DC-1 maximum	1 000 1/h
type of voltage of the control supply voltage control supply voltage at DC rated value design of the surge suppressor with varistor closing power of magnet coil at DC holding power of magnet coil at DC 19 W closing delay at DC opening delay at DC opening delay at DC opening of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of CO contacts for auxiliary contacts instantaneous contact contacts for auxiliary contacts instantaneous contact contacts for auxiliary contacts instantaneous contact contacts for auxiliary contacts contacts for auxiliary contacts contacts for auxiliary contacts contact f	• at DC-3 maximum	600 1/h
type of voltage of the control supply voltage DC control supply voltage at DC rated value 110 V design of the surge suppressor with varistor closing power of magnet coil at DC 19 W holding power of magnet coil at DC 99 380 ms opening delay at DC 99 380 ms opening delay at DC 17 28 ms arcing time 20 30 ms Auxiliary circuit number of NC contacts for auxiliary contacts 1	• at DC-5 maximum	600 1/h
control supply voltage at DC rated value  design of the surge suppressor	Control circuit/ Control	
design of the surge suppressor         with varistor           closing power of magnet coil at DC         19 W           holding power of magnet coil at DC         19 W           closing delay at DC         90 380 ms           opening delay at DC         17 28 ms           arcing time         20 30 ms           Auxiliary circuit         1           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         5.6 A           • at 230 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 60 V rated value         3.2 A	type of voltage of the control supply voltage	DC
closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC opening delay at DC arcing time 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact number of NO contacts for auxiliary contacts  instantaneous contact contacts for auxiliary contacts  instantaneous contact contacts for auxiliary contacts  instantaneous contact contacts for auxiliary contacts contacts for auxiliary co	control supply voltage at DC rated value	110 V
holding power of magnet coil at DC  closing delay at DC  opening delay at DC  arcing time  20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  2  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 2.5 A  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  3.2 A	design of the surge suppressor	with varistor
closing delay at DC opening delay at DC 17 28 ms arcing time 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact 1 number of NO contacts for auxiliary contacts instantaneous contact 2 instantaneous contact 2 number of CO contacts for auxiliary contacts 2 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 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 3.2 A	closing power of magnet coil at DC	19 W
opening delay at DC arcing time 20 30 ms  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact 1 number of NO contacts for auxiliary contacts instantaneous contact 2 instantaneous contact 2 number of CO contacts for auxiliary contacts 2 number of CO contacts for auxiliary contacts 2 number of CO contacts for auxiliary contacts 2 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 3.6 A at 400 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 3.2 A	holding power of magnet coil at DC	19 W
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 60 V rated value 3.2 A	closing delay at DC	90 380 ms
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  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 25 A  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value	opening delay at DC	17 28 ms
number of NC contacts for auxiliary contacts  instantaneous contact  number of NO contacts for auxiliary contacts  instantaneous contact  instantaneous contact  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 46 V rated value  at 60 V rated value  at 10 A  at 110 V rated value  at 110 V rated value  3.2 A		20 30 ms
instantaneous contact     number of NO contacts for auxiliary contacts         instantaneous contact	Auxiliary circuit	
number of NO contacts for auxiliary contacts  ● instantaneous contact  12  number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  10 A  operational current at AC-15  ● at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 24 V rated value  • at 24 V rated value  • at 48 V rated value  • at 48 V rated value  • at 60 V rated value  • at 60 V rated value  • at 110 V rated value  • at 110 V rated value  • 3.2 A	number of NC contacts for auxiliary contacts	1
<ul> <li>instantaneous contact</li> <li>number of CO contacts for auxiliary contacts</li> <li>identification number and letter for switching elements</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 5.6 A</li> <li>at 500 V rated value</li> <li>21</li> <li>operational current at AC-15</li> <li>at 500 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>3.2 A</li> </ul>	instantaneous contact	1
number of CO contacts for auxiliary contacts  identification number and letter for switching elements  operational current at AC-12 maximum  10 A  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 500 V rated value  • at 24 V rated value  • at 48 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 110 V rated value  • at 110 V rated value  • 3.2 A	number of NO contacts for auxiliary contacts	2
identification number and letter for switching elements  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 110 V rated value  3.2 A	• instantaneous contact	2
operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value  • at 500 V rated value  • at 25 A  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value  • at 110 V rated value  3.2 A	number of CO contacts for auxiliary contacts	0
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       10 A         • 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	identification number and letter for switching elements	21
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>2.5 A</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>3.2 A</li> </ul>	operational current at AC-12 maximum	10 A
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>2.5 A</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>3.6 A</li> <li>2.5 A</li> </ul>	operational current at AC-15	
<ul> <li>at 500 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> </ul>	• at 230 V rated value	
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	<ul> <li>at 400 V rated value</li> </ul>	0.0.4
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>3.2 A</li> </ul>		3.6 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>3.2 A</li> </ul>		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>3.2 A</li> </ul>	• at 500 V rated value	
• at 110 V rated value 3.2 A	at 500 V rated value     operational current at DC-12	2.5 A
	at 500 V rated value  operational current at DC-12      at 24 V rated value	2.5 A 10 A
at 125 V rated value     2.5 A	at 500 V rated value     operational current at DC-12     at 24 V rated value     at 48 V rated value	2.5 A 10 A 10 A
	at 500 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value	2.5 A  10 A  10 A  10 A  3.2 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	32(000 1, 1.00)
mounting position	standing, on horizontal mounting surface
	Yes
fastening method side-by-side mounting	screw fixing
fastening method	
height	177.5 mm
width	143 mm
depth	184 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— 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 terminal
• 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	2x (0.75 1.5 mm²)
Safety related data	ΔΛ (0.10 1.0 IIIIII )
	Vee
product function mirror contact according to IEC 60947-4-1	Yes
Electrical Safety	IDOO IDOO 'II I I/
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
Approvals Certificates	
General Product Approval	











Functional Saftey	Test Certificates	other
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Dangerous goods Environment

<u>Transport Information</u> <u>Environmental Confirmations</u>

## Further information

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=3TC4817-0LF4-Z B01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC4817-0LF4-Z B01

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

https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0LF4-Z B01

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

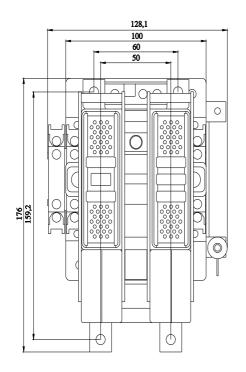
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TC4817-0LF4-Z B01&lang=en

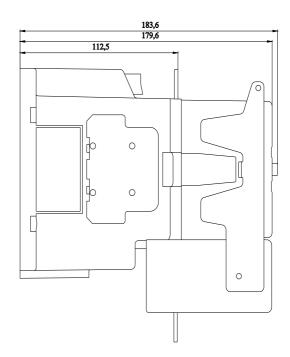
Characteristic: Tripping characteristics, I2t, Let-through current

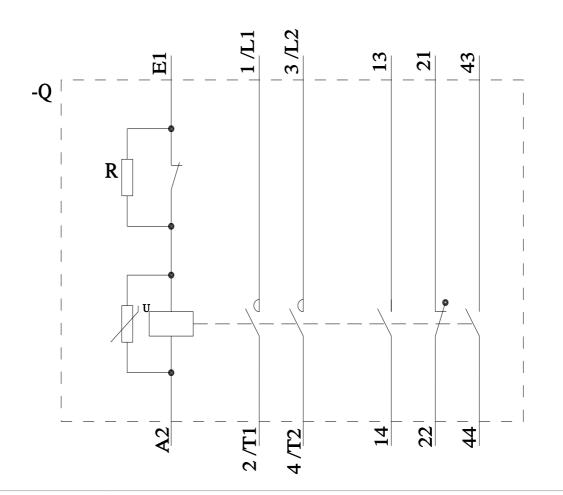
https://support.industry.siemens.com/cs/ww/en/ps/3TC4817-0LF4-Z B01/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC4817-0LF4-Z B01&objecttype=14&gridview=view1







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