

Capacitor contactor, AC-6b 12.5 kVA<sub>r</sub>, / 400 V 1 NO + 1 NC, 220 V AC, 50 Hz 240 V, 60 Hz 3-pole, Size S00 screw terminal



<b>Product brand name</b>	SIRIUS
<b>Product designation</b>	capacitor contactors
<b>Product type designation</b>	3RT26
<b>General technical data</b>	
<b>Size of contactor</b>	S00
<b>Product extension</b>	
• Auxiliary switch	No
<b>Surge voltage resistance</b>	
• of main circuit rated value	6 kV
• of auxiliary circuit rated value	6 kV
<b>maximum permissible voltage for safe isolation</b>	
• between coil and main contacts acc. to EN 60947-1	400 V
<b>Protection class IP</b>	
• on the front	IP20
• of the terminal	IP20
<b>Shock resistance at rectangular impulse</b>	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
<b>Shock resistance with sine pulse</b>	

• at AC	10,5g / 5 ms, 6,6g / 10 ms
<b>Mechanical service life (switching cycles)</b>	
• of the contactor with added auxiliary switch block typical	3 000 000
<b>Electrical endurance (switching cycles)</b>	300 000
<b>Reference code acc. to DIN EN 81346-2</b>	Q

#### Ambient conditions

<b>Installation altitude at height above sea level</b>	
• maximum	2 000 m

#### Main circuit

<b>Number of NO contacts for main contacts</b>	3
<b>Number of NC contacts for main contacts</b>	0
<b>Operating current</b>	
• at AC-6b at 690 V at ambient temperature 60 °C rated value	18 A
<b>Operational reactive power at AC-6b</b>	
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 7.2 kvar
• at 400 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 12.5 kvar
• at 500 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 15 kvar
• at 690 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 21 kvar
• No-load switching frequency at AC	500 1/h
<b>Operating frequency at AC-6b</b>	
• at 230 V maximum	180 1/h
• at 240 V maximum	180 1/h
• at 400 V maximum	180 1/h
• at 480 V maximum	180 1/h
• at 500 V maximum	180 1/h
• at 600 V maximum	180 1/h
• at 690 V maximum	180 1/h

#### Control circuit/ Control

<b>Type of voltage</b>	AC
<b>Type of voltage of the control supply voltage</b>	AC
<b>Control supply voltage at AC</b>	
• at 50 Hz rated value	220 V
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	240 V
• at 60 Hz rated value	240 ... 240 V
<b>Control supply voltage frequency</b>	

<ul style="list-style-type: none"> <li>• 1 rated value</li> </ul>	50 Hz
<ul style="list-style-type: none"> <li>• 2 rated value</li> </ul>	60 Hz
<b>Operating range factor control supply voltage rated value of magnet coil at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>	0.8 ... 1.1
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>	0.85 ... 1.1
<b>Apparent pick-up power of magnet coil at AC</b>	49 V·A
<b>Inductive power factor with closing power of the coil</b>	0.8
<b>Apparent holding power of magnet coil at AC</b>	7.8 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.25
<b>Closing delay</b>	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	8 ... 33 ms
<b>Arcing time</b>	10 ... 15 ms
<b>Residual current of the electronics for control with signal &lt;0&gt;</b>	
<ul style="list-style-type: none"> <li>• at AC at 230 V maximum permissible</li> </ul>	3 mA

#### Auxiliary circuit

<b>Number of NC contacts for auxiliary contacts</b>	1
<ul style="list-style-type: none"> <li>• attachable</li> </ul>	0
<ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>	1
<b>Number of NO contacts for auxiliary contacts</b>	1
<ul style="list-style-type: none"> <li>• attachable</li> </ul>	0
<ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>	1
<b>Operating current of auxiliary contacts at AC-12 maximum</b>	10 A
<b>Operating current of auxiliary contacts at AC-15</b>	
<ul style="list-style-type: none"> <li>• at 230 V</li> </ul>	6 A
<ul style="list-style-type: none"> <li>• at 400 V</li> </ul>	3 A
<b>Operating current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	6 A
<ul style="list-style-type: none"> <li>• at 60 V</li> </ul>	2 A
<ul style="list-style-type: none"> <li>• at 110 V</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 125 V</li> </ul>	0.9 A
<ul style="list-style-type: none"> <li>• at 220 V</li> </ul>	0.3 A
<b>Contact reliability of auxiliary contacts</b>	0.00000001

#### UL/CSA ratings

<b>Contact rating of auxiliary contacts according to UL</b>	A600 / Q600
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#### Short-circuit protection

<b>Design of the fuse link</b>	
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> </ul>	
<ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> </ul>	gG: 40 A (690 V, 50 kA)

- for short-circuit protection of the auxiliary switch required

gG: 10 A (500 V, 1 kA)

### Installation/ mounting/ dimensions

• (mounting position)	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
• (mounting type)	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
(height)	125 mm
Width	45 mm
Depth	120 mm
<b>Required spacing</b>	
• with side-by-side mounting	
— at the side	10 mm
• for grounded parts	
— at the side	10 mm

### Connections/Terminals

<b>Type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
<b>Type of connectable conductor cross-sections</b>	
• for main contacts	
— solid	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— stranded	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— single or multi-stranded	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• at AWG conductors for main contacts	2x (20 ... 16), 2x (18 ... 14), 2x 12
<b>Type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— single or multi-stranded	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• at AWG conductors for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 2x 12
<b>Type of minimum connectable cross-section for main contacts at AC-6b</b>	
• at 40 °C	1x 4 mm <sup>2</sup> , 2x 2.5 mm <sup>2</sup>
• at 60 °C	2x 4 mm <sup>2</sup>
AWG number as coded connectable conductor cross section for main contacts	20 ... 12

### Safety related data

<b>Product function</b>	
• Mirror contact acc. to IEC 60947-4-1	No

- positively driven operation acc. to IEC 60947-5-1

No

Protection against electrical shock

finger-safe

## Certificates/approvals

### General Product Approval



CSA



UL



EG-Konf.

### Declaration of Conformity

[Miscellaneous](#)

### Test Certificates

[Type Test Certificates/Test Report](#)

### Marine / Shipping



ABS



BUREAU VERITAS



LRS



RMRS



DNV-GL  
DNVGL.COM/AF

### other

[Confirmation](#)

### other



VDE

## Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2617-1AP63>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2617-1AP63>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1AP63>

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

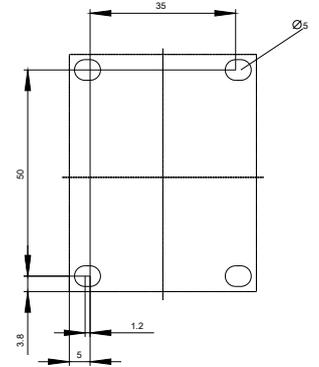
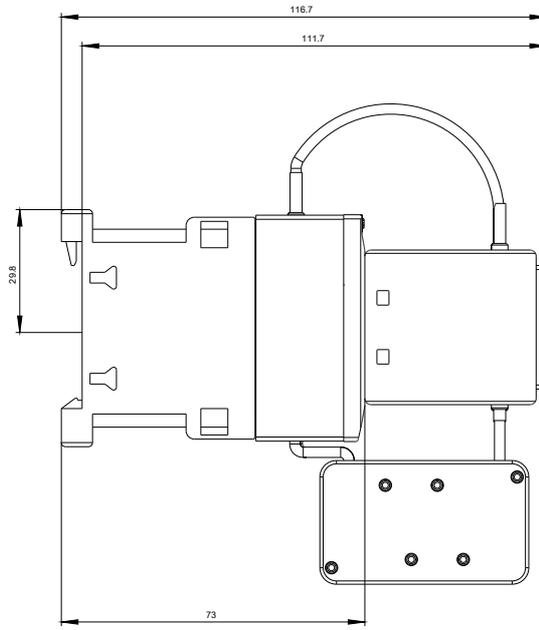
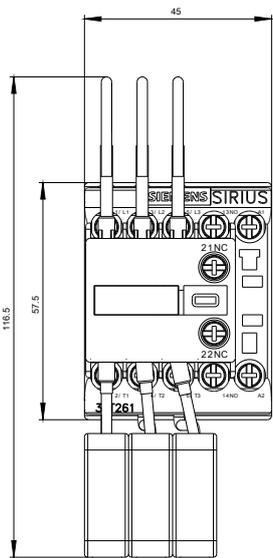
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2617-1AP63&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2617-1AP63&lang=en)

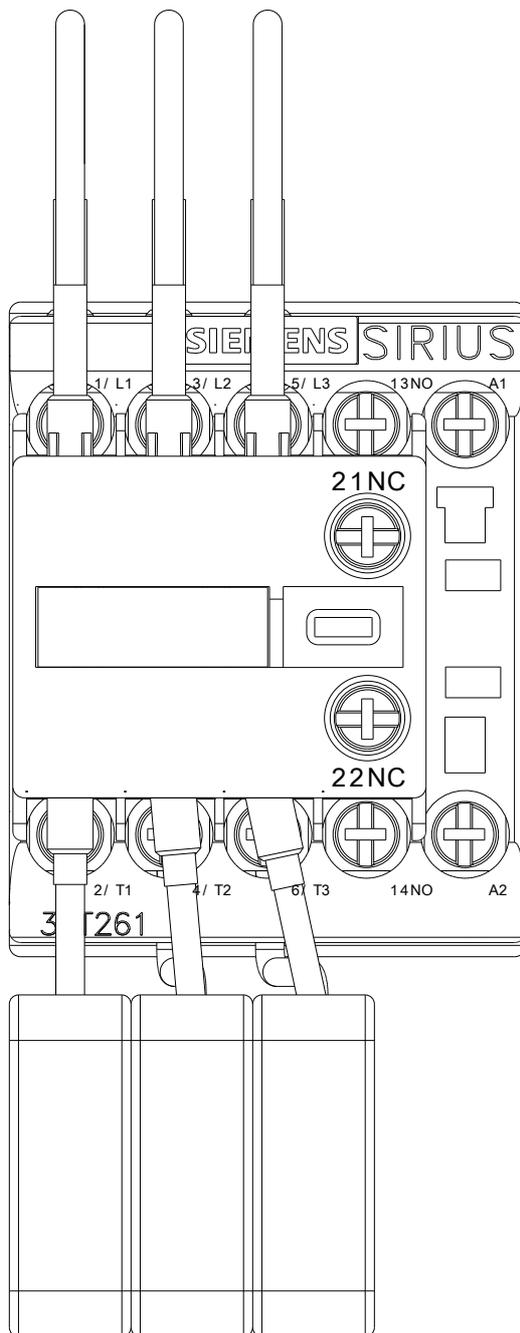
### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

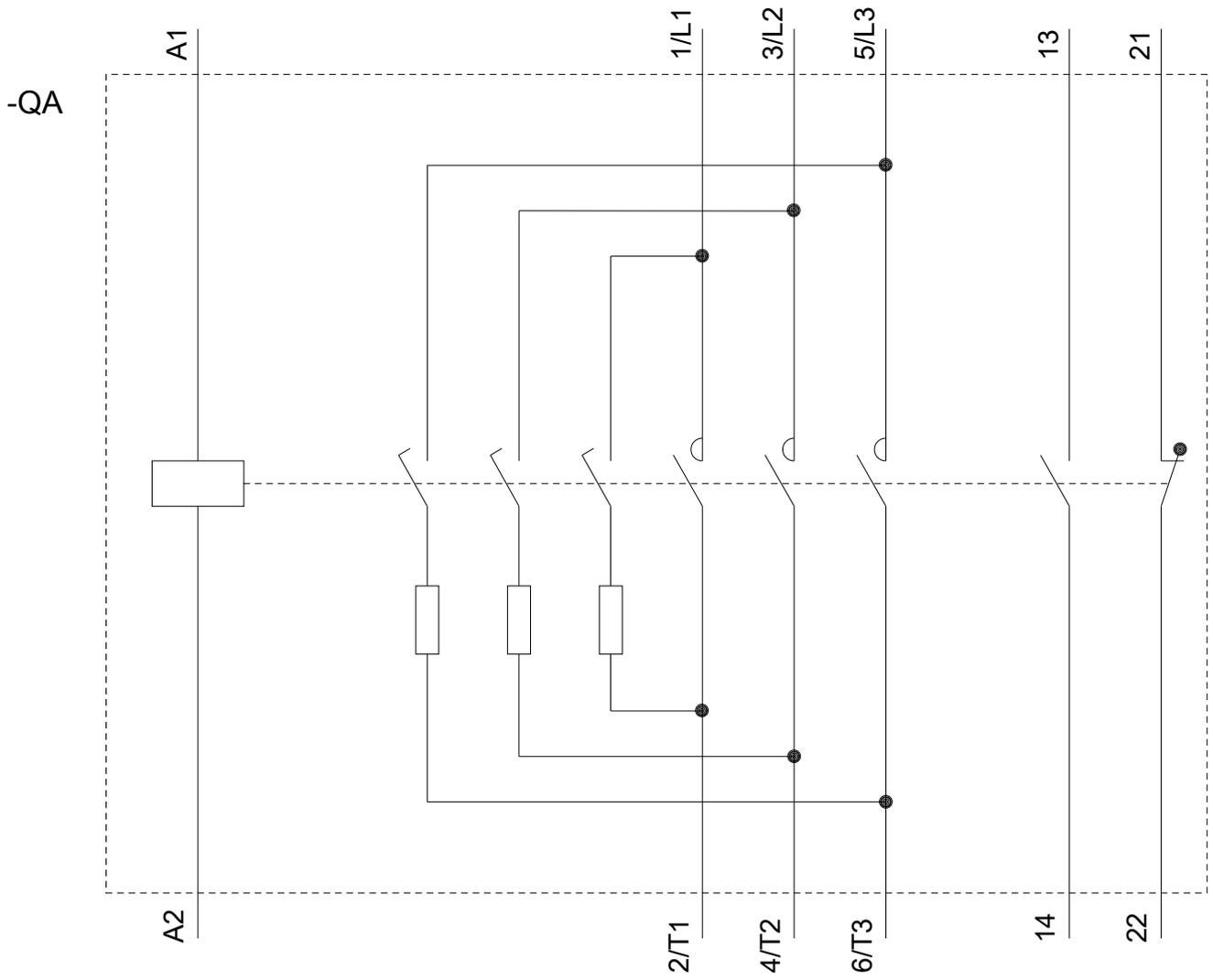
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1AP63/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2617-1AP63&objecttype=14&gridview=view1>







last modified:

04/30/2019