



capacitor contactor, AC-6b 25 kVA<sub>r</sub>, / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 2 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
<b>General technical data</b>	
size of contactor	S0
product extension auxiliary switch	No
power loss [W] for rated value of the current <ul style="list-style-type: none"> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> </ul>	2.7 W 5.9 W
type of calculation of power loss depending on pole	quadratic
insulation voltage <ul style="list-style-type: none"> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V 690 V
surge voltage resistance <ul style="list-style-type: none"> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> </ul>	6 kV 6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse <ul style="list-style-type: none"> <li>at DC</li> </ul>	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse <ul style="list-style-type: none"> <li>at DC</li> </ul>	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles) <ul style="list-style-type: none"> <li>of the contactor with added auxiliary switch block typical</li> </ul>	3 000 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2014
Weight	0.77 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>	-25 ... +60 °C -55 ... +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
<b>Environmental footprint</b>	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO <sub>2</sub> eq] total	106 kg
global warming potential [CO <sub>2</sub> eq] during manufacturing	2.47 kg
global warming potential [CO <sub>2</sub> eq] during operation	104 kg

global warming potential [CO2 eq] after end of life	-0.226 kg
<b>Main circuit</b>	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operational current at AC-6b at 690 V at ambient temperature 60 °C rated value	36 A
operating reactive power at AC-6b <ul style="list-style-type: none"> <li>at 230 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 400 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 500 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 690 V at 50/60 Hz at ambient temperature 60 °C rated value</li> </ul>	5 ... 14 kvar 8 ... 25 kvar 10 ... 31 kvar 14 ... 43 kvar
no-load switching frequency <ul style="list-style-type: none"> <li>at DC</li> </ul>	500 1/h
operating frequency at AC-6b <ul style="list-style-type: none"> <li>at 230 V maximum</li> <li>at 240 V maximum</li> <li>at 400 V maximum</li> <li>at 480 V maximum</li> <li>at 500 V maximum</li> <li>at 600 V maximum</li> <li>at 690 V maximum</li> </ul>	100 1/h 100 1/h 100 1/h 100 1/h 100 1/h 100 1/h 72 1/h
<b>Control circuit/ Control</b>	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.8 1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay <ul style="list-style-type: none"> <li>at DC</li> </ul>	50 ... 170 ms
opening delay <ul style="list-style-type: none"> <li>at DC</li> </ul>	15 ... 18 ms
arcing time	10 ... 10 ms
control version of the switch operating mechanism	Standard A1 - A2
residual current of the electronics for control with signal <0> <ul style="list-style-type: none"> <li>at DC at 24 V maximum permissible</li> </ul>	16 mA
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts <ul style="list-style-type: none"> <li>attachable</li> <li>instantaneous contact</li> </ul>	2 0 2
number of NO contacts for auxiliary contacts <ul style="list-style-type: none"> <li>attachable</li> <li>instantaneous contact</li> </ul>	1 0 1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at AC-15 <ul style="list-style-type: none"> <li>at 230 V</li> <li>at 400 V</li> <li>at 690 V</li> </ul>	6 A 3 A 1 A
operational current of auxiliary contacts at DC-13 <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 60 V</li> <li>at 110 V</li> <li>at 125 V</li> <li>at 220 V</li> </ul>	6 A 2 A 1 A 0.9 A 0.3 A

<b>contact reliability of auxiliary contacts</b>	0.00000001
<b>UL/CSA ratings</b>	
<b>contact rating of auxiliary contacts according to UL</b>	A600 / Q600
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit with type of coordination 1 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 80 A (690 V, 50 kA)  gG: 10 A (500 V, 1 kA)
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>fastening method</b>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<b>height</b>	135 mm
<b>width</b>	45 mm
<b>depth</b>	165 mm
<b>required spacing</b>	
<ul style="list-style-type: none"> <li>with side-by-side mounting at the side</li> <li>for grounded parts at the side</li> </ul>	10 mm 10 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals
<b>type of connectable conductor cross-sections for main contacts</b>	
<ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 2x 12
<b>type of minimum connectable cross-sections for main contacts at AC-6b</b>	
<ul style="list-style-type: none"> <li>at 40 °C</li> <li>at 60 °C</li> </ul>	1x 10 mm² 2x 10 mm²
AWG number as coded connectable conductor cross section for main contacts	16 ... 8
<b>Safety related data</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No No
Electrical Safety	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	



[Confirmation](#)



EMV	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

other	Dangerous goods	Environment
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[Confirmation](#)

[Transport Information](#)



[Environmental Confirmations](#)

## 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=3RT2627-1BB45>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2627-1BB45>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1BB45>

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

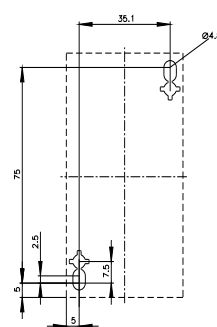
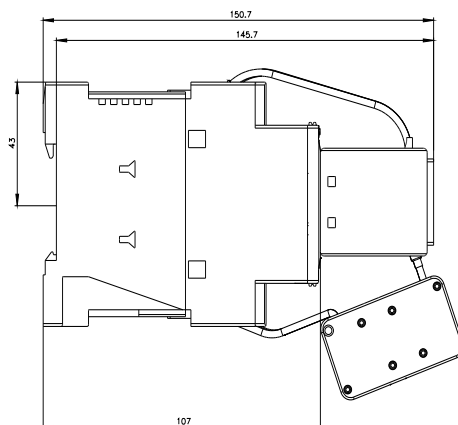
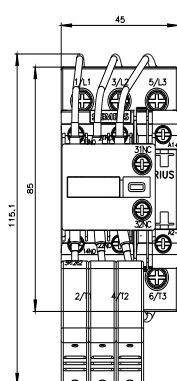
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2627-1BB45&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2627-1BB45&lang=en)

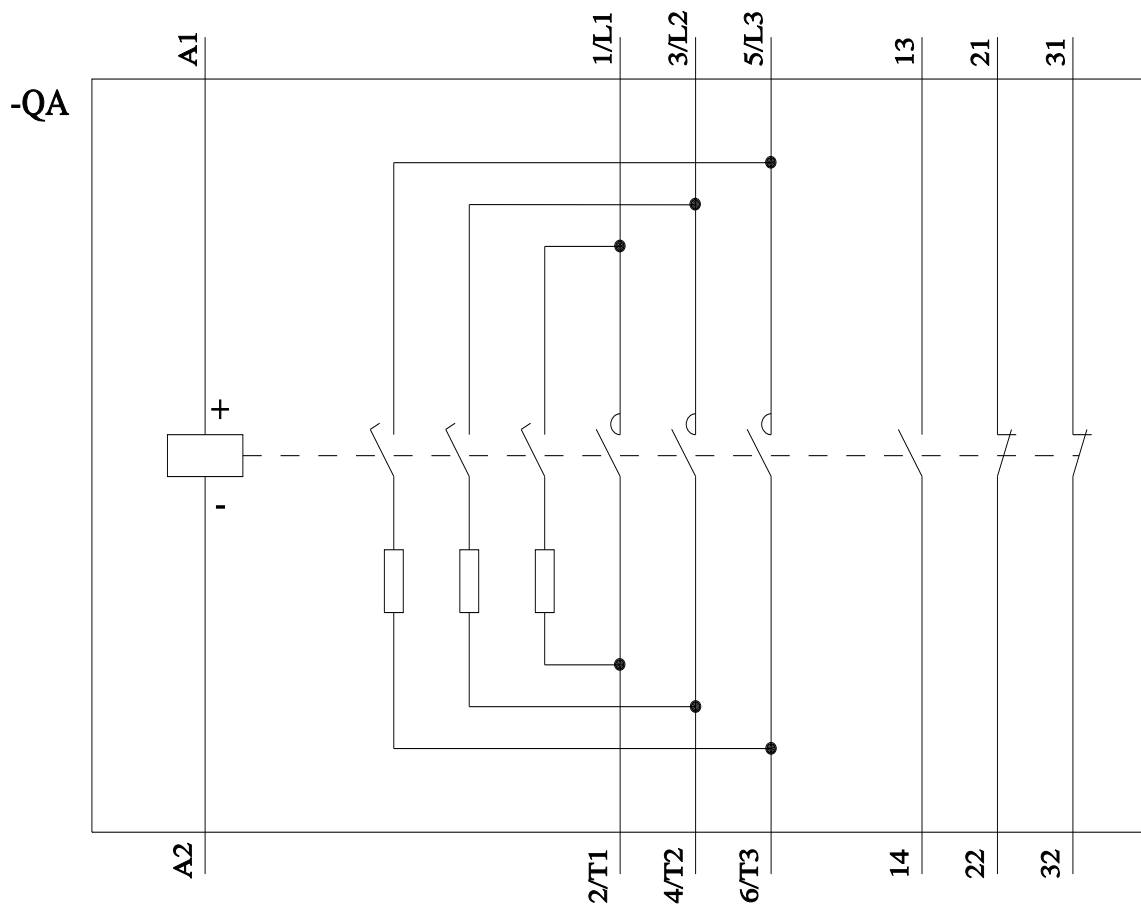
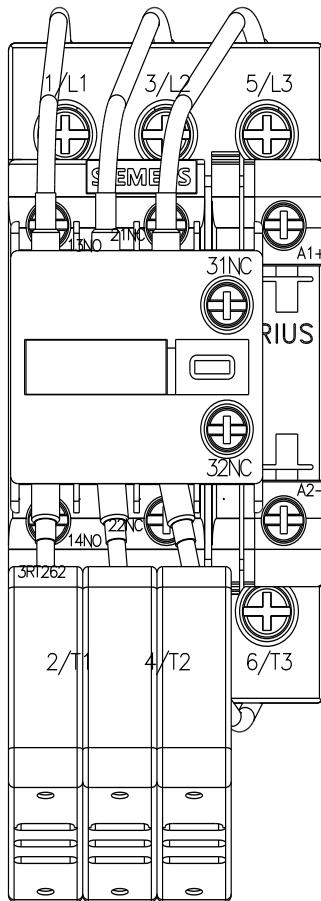
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1BB45/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2627-1BB45&objecttype=14&gridview=view1>





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