



capacitor contactor, AC-6b 75 kVA<sub>r</sub>, / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 2 NC, screw terminal, size: S3

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
<b>General technical data</b>	
size of contactor	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state per pole	5.3 W
• without load current share typical	7.3 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
• of main circuit with degree of pollution 3 rated value	1 000 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
• of main circuit rated value	8 kV
• of auxiliary circuit rated value	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	
• at AC	10.3g / 5 ms, 6.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
• of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	06/26/2017
Weight	1.795 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-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 [CO2 eq] during manufacturing	2.47 kg
global warming potential [CO2 eq] during operation	104 kg
global warming potential [CO2 eq] after end of life	-0.226 kg
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>number of NO contacts for main contacts</b>	3
<b>number of NC contacts for main contacts</b>	0
operational current at AC-6b at 690 V at ambient temperature 60 °C rated value	108 A
<b>operating reactive power at AC-6b</b>	
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	14 ... 43 kvar
• at 400 V at 50/60 Hz at ambient temperature 60 °C rated value	25 ... 75 kvar
• at 500 V at 50/60 Hz at ambient temperature 60 °C rated value	31 ... 94 kvar
• at 690 V at 50/60 Hz at ambient temperature 60 °C rated value	43 ... 129 kvar
<b>no-load switching frequency</b>	
• at AC	500 1/h
<b>operating frequency at AC-6b</b>	
• at 230 V maximum	200 1/h
• at 240 V maximum	200 1/h
• at 400 V maximum	100 1/h
• at 480 V maximum	60 1/h
• at 500 V maximum	60 1/h
• at 600 V maximum	40 1/h
• at 690 V maximum	40 1/h
<b>Control circuit/ Control</b>	
<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	110 V
<b>control supply voltage frequency</b>	
• 1 rated value	50 Hz
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
• at 50 Hz	0.8 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	296 VA
<b>inductive power factor with closing power of the coil</b>	0.61
<b>apparent holding power of magnet coil at AC</b>	19 VA
<b>inductive power factor with the holding power of the coil</b>	0.38
<b>closing delay</b>	
• at AC	13 ... 50 ms
<b>opening delay</b>	
• at AC	10 ... 21 ms
<b>arcing time</b>	10 ... 20 ms
<b>control version of the switch operating mechanism</b>	Standard A1 - A2
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	2
• attachable	1
• instantaneous contact	2
<b>number of NO contacts for auxiliary contacts</b>	0
• attachable	1
• instantaneous contact	0
<b>operational current of auxiliary contacts at AC-12 maximum</b>	10 A
<b>operational current of auxiliary contacts at AC-15</b>	
• at 230 V	6 A
• at 400 V	3 A
• at 690 V	0 A

<b>operational current of auxiliary contacts at DC-13</b>	
<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>	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
<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: 250 A (690 V, 50 kA) gG: 10 A (690 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>	140 mm
<b>width</b>	80 mm
<b>depth</b>	152 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
type of connectable conductor cross-sections for main contacts	
<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 (10 ... 16 mm <sup>2</sup> ) 2x (10 ... 70 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> ) 2x (10 ... 70 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> ) 2x (10 ... 50 mm <sup>2</sup> )
<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 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 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 50 mm <sup>2</sup> 2x 35 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section for main contacts</b>	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>	
General Product Approval	



[KC](#)



EMV	Test Certificates	Maritime application	other
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[Type Test Certificates/Test Report](#)



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 for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

#### 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=3RT2645-1AF05>

#### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2645-1AF05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2645-1AF05>

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

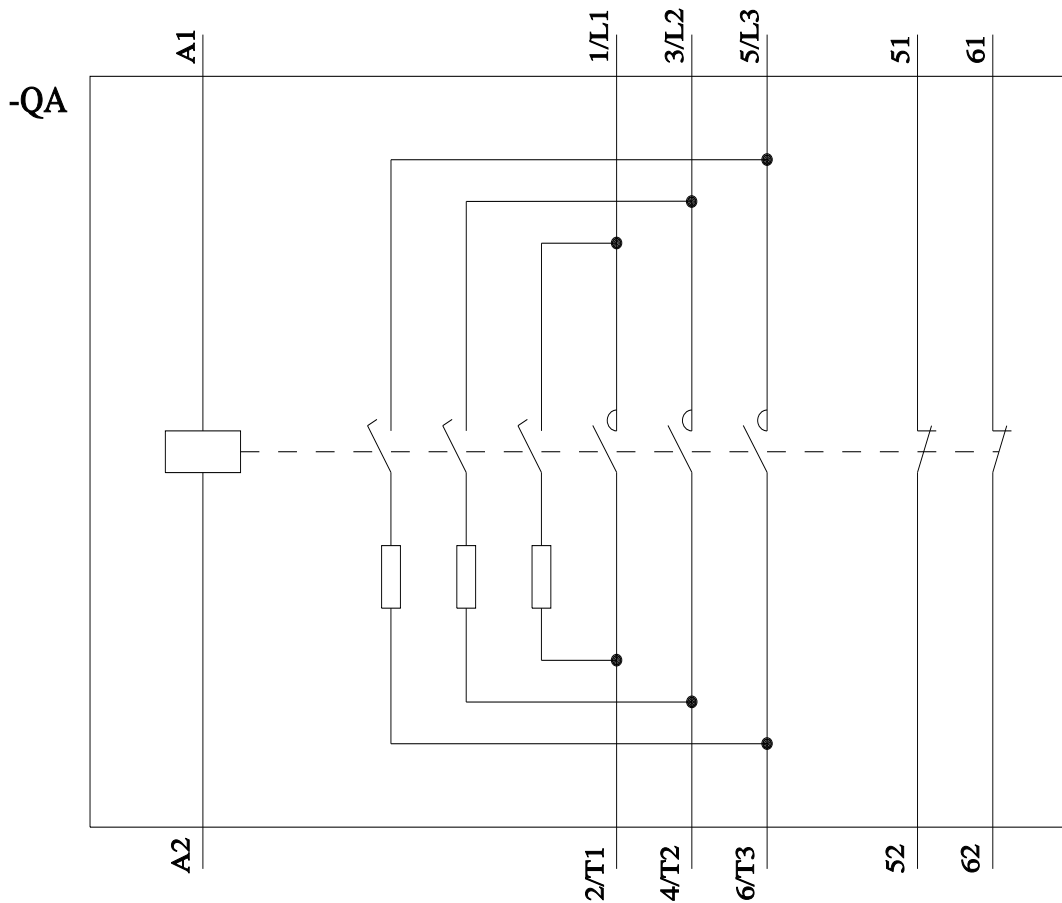
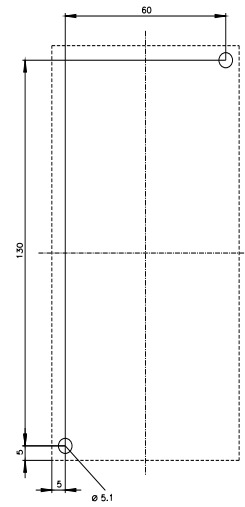
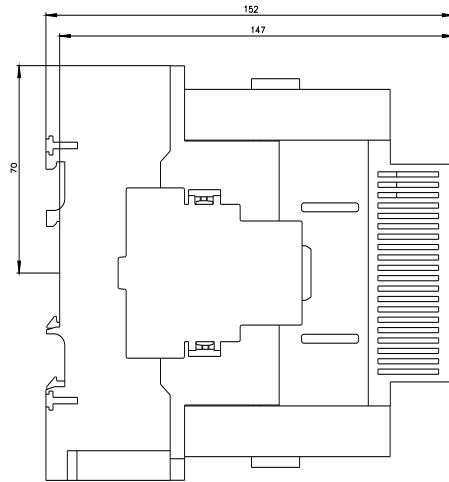
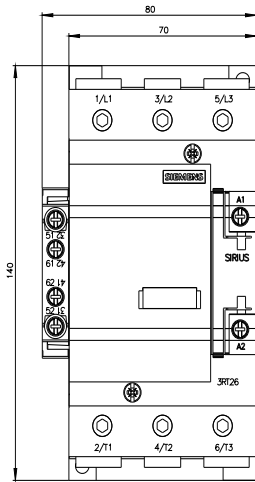
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2645-1AF05&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2645-1AF05&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2645-1AF05/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2645-1AF05&objecttype=14&gridview=view1>



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