



capacitor contactor, AC-6b 100 kVAr, / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 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	6.5 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)	120 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	06/26/2017
<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 [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 [CO <sub>2</sub> eq] after end of life	-0.226 kg

Main circuit	
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	144 A
<b>operating reactive power at AC-6b</b> <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>	19 ... 57 kvar 33 ... 100 kvar 41 ... 125 kvar 57 ... 172 kvar
<b>no-load switching frequency</b> <ul style="list-style-type: none"> <li>at AC</li> </ul>	500 1/h
<b>operating frequency at AC-6b</b> <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>	150 1/h 150 1/h 80 1/h 53 1/h 53 1/h 32 1/h 30 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
<b>control supply voltage at AC</b> <ul style="list-style-type: none"> <li>at 50 Hz rated value</li> </ul>	24 V
<b>control supply voltage frequency</b> <ul style="list-style-type: none"> <li>1 rated value</li> </ul>	50 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
apparent pick-up power of magnet coil at AC	296 VA
inductive power factor with closing power of the coil	0.61
apparent holding power of magnet coil at AC	19 VA
inductive power factor with the holding power of the coil	0.38
<b>closing delay</b> <ul style="list-style-type: none"> <li>at AC</li> </ul>	13 ... 50 ms
<b>opening delay</b> <ul style="list-style-type: none"> <li>at AC</li> </ul>	10 ... 21 ms
arcing time	10 ... 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
<b>number of NC contacts for auxiliary contacts</b> <ul style="list-style-type: none"> <li>attachable</li> <li>instantaneous contact</li> </ul>	1 1 1
<b>number of NO contacts for auxiliary contacts</b> <ul style="list-style-type: none"> <li>attachable</li> <li>instantaneous contact</li> </ul>	1 1 1
operational current of auxiliary contacts at AC-12 maximum	10 A
<b>operational current of auxiliary contacts at AC-15</b> <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 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> </ul>	6 A 2 A 1 A 0.9 A

• at 220 V	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>	
• for short-circuit protection of the main circuit with type of coordination 1 required	gG: 250 A (690 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	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>	140 mm
<b>width</b>	80 mm
<b>depth</b>	152 mm
<b>required spacing</b>	
• with side-by-side mounting at the side	10 mm
• for grounded parts at the side	10 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
• at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
<b>type of connectable conductor cross-sections for main contacts</b>	
• solid	2x (10 ... 16 mm²)
• stranded	2x (10 ... 70 mm²), 1x (10 ... 70 mm²)
• solid or stranded	2x (10 ... 70 mm²), 1x (10 ... 70 mm²)
• finely stranded with core end processing	2x (10 ... 50 mm²)
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• for AWG cables for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 2x 12
<b>type of minimum connectable cross-sections for main contacts at AC-6b</b>	
• at 40 °C	1x 70 mm²
• at 60 °C	2x 50 mm²
AWG number as coded connectable conductor cross section for main contacts	8
<b>Safety related data</b>	
<b>product function</b>	
• mirror contact according to IEC 60947-4-1	No
• positively driven operation according to IEC 60947-5-1	No
<b>Electrical Safety</b>	
<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](#)



[KC](#)

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



[Confirmation](#)

Dangerous Good

Environment

[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=3RT2646-1AB03>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2646-1AB03>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AB03>

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

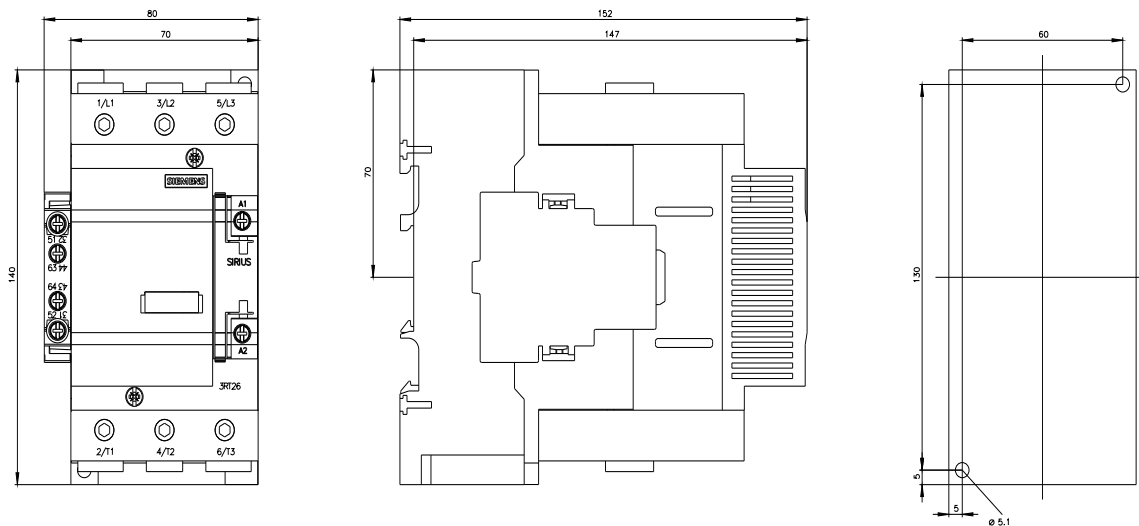
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2646-1AB03&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2646-1AB03&lang=en)

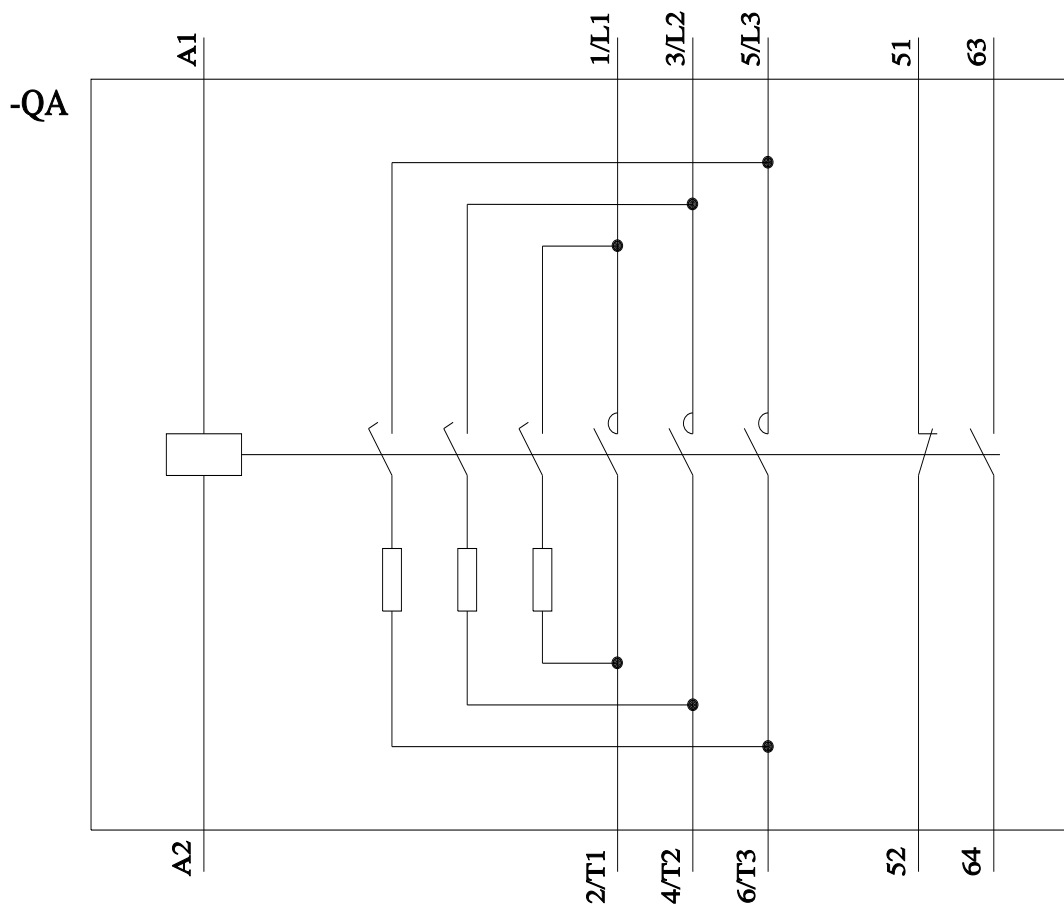
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AB03/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2646-1AB03&objecttype=14&gridview=view1>





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