## **SIEMENS**

Data sheet 3RT2617-1BB43



capacitor contactor, AC-6b 12.5 kVAr, / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S00  $\,$ 

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S00
product extension auxiliary switch	No
insulation voltage	
• of main circuit with degree of pollution 3 rated value	690 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 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 DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (operating cycles)	300 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2014
Ambient conditions	
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 %
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	18 A
operating reactive power at AC-6b	
$\bullet$ at 230 V at 50/60 Hz at ambient temperature 60 $^{\circ}\text{C}$ rated value	0 7.2 kvar
<ul> <li>at 400 V at 50/60 Hz at ambient temperature 60 °C rated value</li> </ul>	0 12.5 kvar

<ul> <li>at 500 V at 50/60 Hz at ambient temperature 60 °C rated value</li> </ul>	0 15 kvar
<ul> <li>at 690 V at 50/60 Hz at ambient temperature 60 °C rated value</li> </ul>	0 21 kvar
no-load switching frequency	
• at DC	500 1/h
operating frequency at AC-6b	
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	
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	
• initial value	0.85
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
residual current of the electronics for control with signal <0>	
at DC at 24 V maximum permissible	10 mA
Auxiliary circuit	
mumber of NC contests for small and a first	4
number of NC contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts  • attachable	0
<ul><li>attachable</li><li>instantaneous contact</li></ul>	
attachable	0
<ul><li>attachable</li><li>instantaneous contact</li></ul>	0 1
attachable     instantaneous contact  number of NO contacts for auxiliary contacts     attachable     instantaneous contact	0 1 1 0 1
attachable     instantaneous contact  number of NO contacts for auxiliary contacts     attachable     instantaneous contact  operational current of auxiliary contacts at AC-12 maximum	0 1 1 0
attachable     instantaneous contact  number of NO contacts for auxiliary contacts     attachable     instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15	0 1 1 0 1 10 A
attachable     instantaneous contact  number of NO contacts for auxiliary contacts     attachable     instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15     at 230 V	0 1 1 0 1 10 A
attachable     instantaneous contact  number of NO contacts for auxiliary contacts     attachable     instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15     at 230 V     at 400 V	0 1 1 0 1 10 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V	0 1 1 0 1 10 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13	0 1 1 0 1 10 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V	0 1 1 0 1 10 A 6 A 3 A 1 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V	0 1 1 0 1 10 A 6 A 3 A 1 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 60 V at 110 V	0 1 1 0 1 10 A 6 A 3 A 1 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V	0 1 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V	0 1 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V  contact reliability of auxiliary contacts	0 1 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V  contact reliability of auxiliary contacts  UL/CSA ratings	0 1 1 0 1 10A 6A 3A 1A 6A 2A 1A 0.9A 0.3A 0.00000001
attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V  contact reliability of auxiliary contacts  UL/CSA ratings contacts according to UL	0 1 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
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attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current of auxiliary contacts at AC-12 maximum  operational current of auxiliary contacts at AC-15 at 230 V at 400 V at 690 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 125 V at 220 V  contact reliability of auxiliary contacts  UL/CSA ratings  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required for short-circuit protection of the auxiliary switch required	0 1 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.00000001
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	hadrond by 1/ 20 5° on vertical requiring confess
for the sign of th	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	125 mm
width	45 mm
depth	120 mm
required spacing	
<ul> <li>with side-by-side mounting at the side</li> </ul>	10 mm
for grounded parts at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
stranded	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
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
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
<ul> <li>finely stranded with core end processing</li> </ul>	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
type of minimum connectable cross-sections for main contacts at AC-6b	
• at 40 °C	1x 4 mm², 2x 2.5 mm²
• at 60 °C	2x 4 mm²
AWG number as coded connectable conductor cross section for main contacts	20 12
afety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	No
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	FMC:

General Product Approval





Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

**Dangerous Good** 



Confirmation



**Transport Information** 

Further informatior

Siemens has decided to exit the Russian market (see here).

## https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## 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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2617-1BB43

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2617-1BB43

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

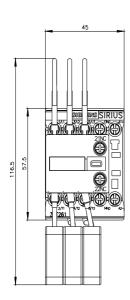
https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1BB43

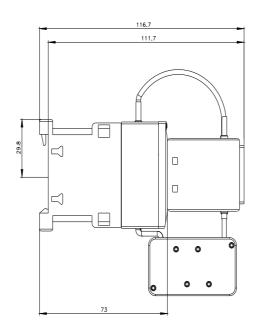
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

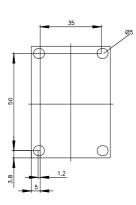
Characteristic: Tripping characteristics, I2t, Let-through current

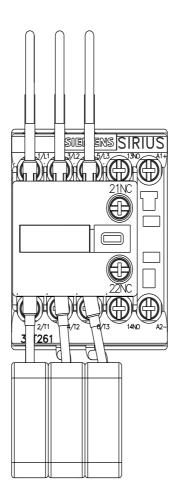
https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1BB43/char

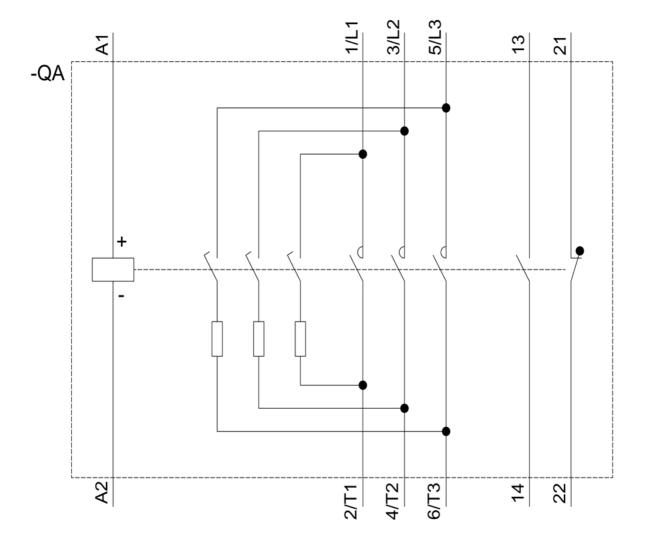
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2617-1BB43&objecttype=14&gridview=view1











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