

Capacitor contactor, AC-6b 25 kVA_r, / 400 V 1 NO + 2 NC, 110 V DC
3-pole, Size S0 screw terminal



Product brand name	SIRIUS
Product designation	capacitor contactors
Product type designation	3RT26
General technical data	
Size of contactor	S0
Product extension	
• Auxiliary switch	No
Surge voltage resistance	
• of main circuit rated value	6 kV
• of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN 60947-1	400 V
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
Shock resistance with sine pulse	

<ul style="list-style-type: none"> • at DC 	15g / 5 ms, 10g / 10 ms
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • of the contactor with added auxiliary switch block typical 	3 000 000
Electrical endurance (switching cycles)	200 000
Reference code acc. to DIN EN 81346-2	Q

Ambient conditions	
Installation altitude at height above sea level	
<ul style="list-style-type: none"> • maximum 	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-55 ... +80 °C

Main circuit	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
<ul style="list-style-type: none"> • at AC-6b at 690 V at ambient temperature 60 °C rated value 	36 A
Operational reactive power at AC-6b	
<ul style="list-style-type: none"> • at 230 V at 50/60 Hz at ambient temperature 60 °C rated value 	5 ... 14 kvar
<ul style="list-style-type: none"> • at 400 V at 50/60 Hz at ambient temperature 60 °C rated value 	8 ... 25 kvar
<ul style="list-style-type: none"> • at 500 V at 50/60 Hz at ambient temperature 60 °C rated value 	10 ... 31 kvar
<ul style="list-style-type: none"> • at 690 V at 50/60 Hz at ambient temperature 60 °C rated value 	14 ... 43 kvar
No-load switching frequency	
<ul style="list-style-type: none"> • at DC 	500 1/h
Operating frequency at AC-6b	
<ul style="list-style-type: none"> • at 230 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 240 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 400 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 480 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 500 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 600 V maximum 	100 1/h
<ul style="list-style-type: none"> • at 690 V maximum 	72 1/h

Control circuit/ Control	
Type of voltage	DC
Type of voltage of the control supply voltage	DC
Control supply voltage	
<ul style="list-style-type: none"> • at DC rated value 	110 V

Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Closing power of magnet coil at DC	5.9 W
Holding power of magnet coil at DC	5.9 W
Closing delay	
• at DC	50 ... 170 ms
Arcing time	10 ... 15 ms

Auxiliary circuit

Number of NC contacts for auxiliary contacts	2
• attachable	0
• instantaneous contact	2
Number of NO contacts for auxiliary contacts	1
• attachable	0
• instantaneous contact	1
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
• at 230 V	6 A
• at 400 V	3 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	6 A
• at 60 V	2 A
• at 110 V	1 A
• at 125 V	0.9 A
• at 220 V	0.3 A
Contact reliability of auxiliary contacts	0.00000001

UL/CSA ratings

Contact rating of auxiliary contacts according to UL	A600 / Q600
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Short-circuit protection

Design of the fuse link	
• for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 80 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	135 mm
Width	45 mm
Depth	165 mm
Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — at the side 	10 mm
<ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — at the side 	10 mm

Connections/ Terminals


Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid 	2x (1 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²)
<ul style="list-style-type: none"> — stranded 	2x (1 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²)
<ul style="list-style-type: none"> — single or multi-stranded 	2x (1 ... 2,5 mm ²), 2x (2,5 ... 10 mm ²)
<ul style="list-style-type: none"> — finely stranded with core end processing 	2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), 1x 10 mm ²
<ul style="list-style-type: none"> • at AWG conductors for main contacts 	2x (16 ... 12), 2x (14 ... 8)
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
<ul style="list-style-type: none"> — single or multi-stranded 	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x 4 mm ²
<ul style="list-style-type: none"> — finely stranded with core end processing 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
<ul style="list-style-type: none"> • at AWG conductors for auxiliary contacts 	2x (20 ... 16), 2x (18 ... 14), 2x 12
Type of minimum connectable cross-section for main contacts at AC-6b	
<ul style="list-style-type: none"> • at 40 °C 	1x 10 mm ²
<ul style="list-style-type: none"> • at 60 °C 	2x 10 mm ²
AWG number as coded connectable conductor cross section for main contacts	16 ... 8

Safety related data

Product function	
<ul style="list-style-type: none"> • Mirror contact acc. to IEC 60947-4-1 	No
<ul style="list-style-type: none"> • positively driven operation acc. to IEC 60947-5-1 	No
Protection against electrical shock	finger-safe

Certificates/ approvals

General Product Approval			EMC	Declaration of Conformity	
 CCC	 CSA	 UL		 RCM	 EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping	other		
Miscellaneous	Type Test Certificates/Test Report	 BUREAU VERITAS	 RMRS	Confirmation	 VDE

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2627-1BF45>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2627-1BF45>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1BF45>

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

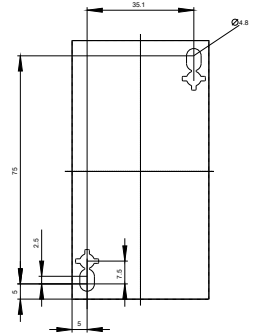
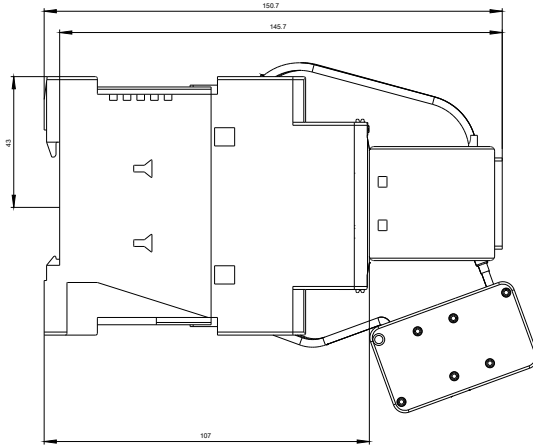
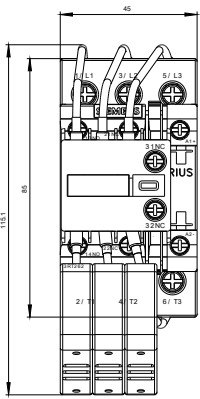
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2627-1BF45&lang=en

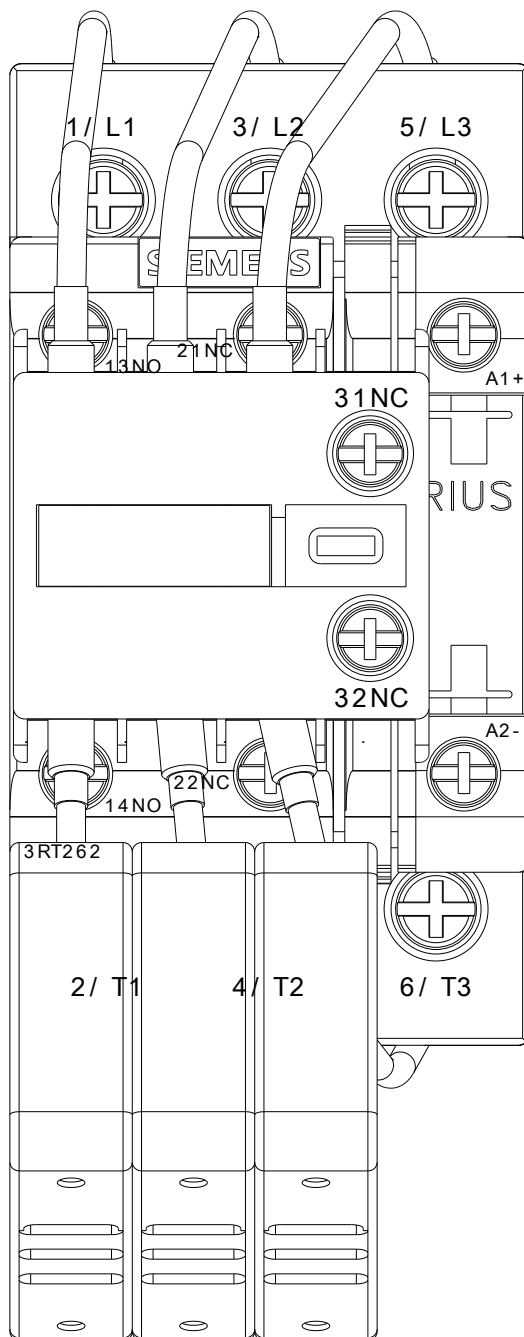
Characteristic: Tripping characteristics, I_t, Let-through current

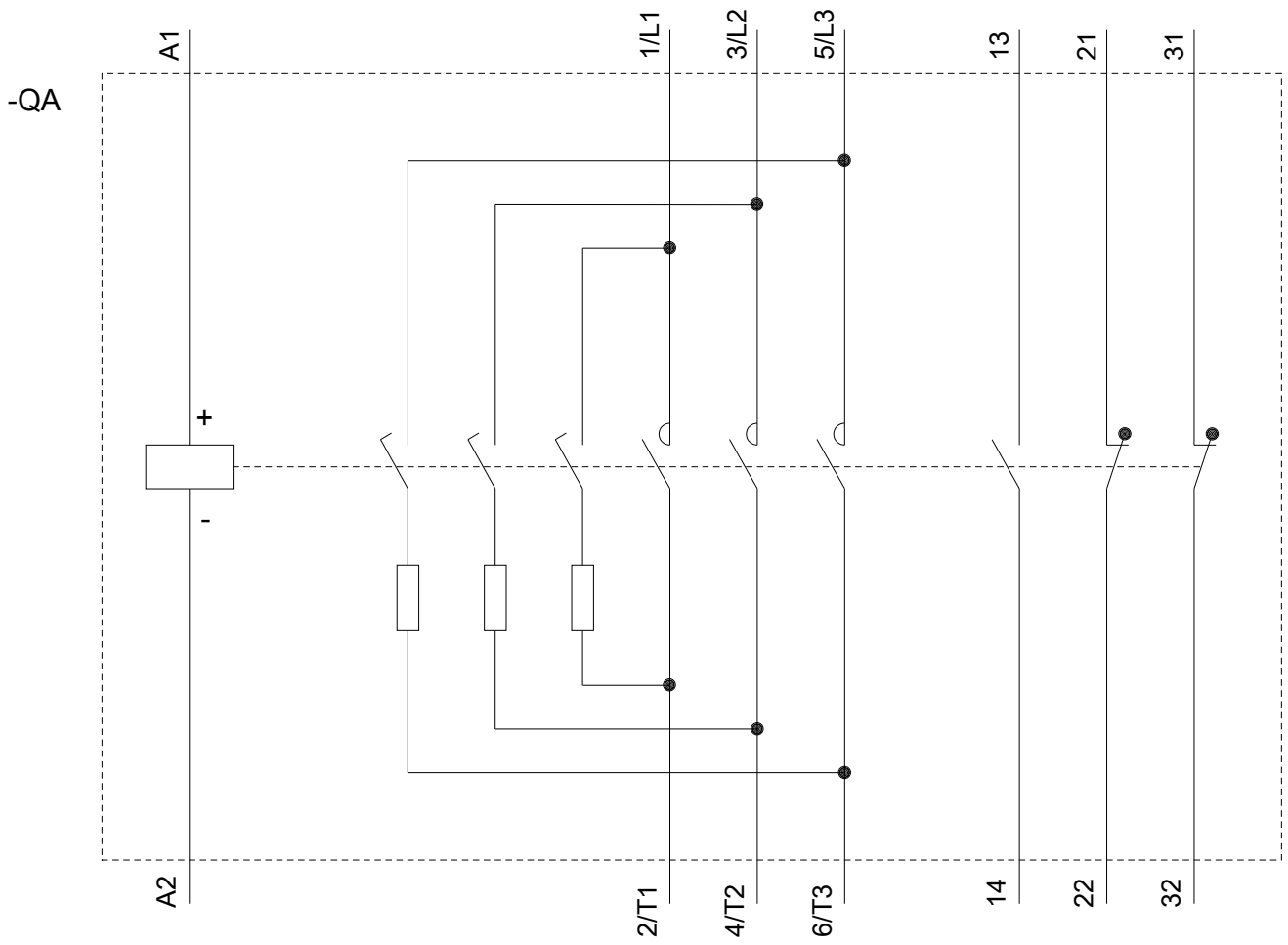
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1BF45/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2627-1BF45&objecttype=14&gridview=view1>







last modified:

09/04/2019