



Capacitor contactor, AC-6b 33 kVAr, / 400 V 1 NO + 2 NC, 230 V AC, 50 Hz 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
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching cycles)	
• of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (switching cycles)	150 000
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	47.6 A
operating reactive power at AC-6b	
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	6 ... 19 kvar
• at 400 V at 50/60 Hz at ambient temperature 60 °C	11 ... 33 kvar

rated value	
• at 500 V at 50/60 Hz at ambient temperature 60 °C	14 ... 41 kvar
rated value	
• at 690 V at 50/60 Hz at ambient temperature 60 °C	19 ... 57 kvar
rated value	
no-load switching frequency	
• at AC	500 1/h
operating frequency at AC-6b	
• at 230 V maximum	100 1/h
• at 240 V maximum	100 1/h
• at 400 V maximum	100 1/h
• at 480 V maximum	70 1/h
• at 500 V maximum	65 1/h
• at 600 V maximum	45 1/h
• at 690 V maximum	36 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
control supply voltage frequency	
• 1 rated value	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 ... 1.1
apparent pick-up power of magnet coil at AC	77 VA
inductive power factor with closing power of the coil	0.82
apparent holding power of magnet coil at AC	9.8 VA
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	8 ... 40 ms
opening delay	
• at AC	4 ... 16 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>	
• at AC at 230 V maximum permissible	7 mA
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
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at AC-15	
• at 230 V	6 A
• at 400 V	3 A
operational 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
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the main circuit with type of coordination 1 required	gG: 100 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

fastening method

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

height

150 mm

width

45 mm

depth

155 mm

required spacing

- with side-by-side mounting at the side
- for grounded parts at the side

10 mm

10 mm

Connections/ Terminals

type of electrical connection

- for main current circuit
- for auxiliary and control circuit
- at contactor for auxiliary contacts
- of magnet coil

screw-type terminals

screw-type terminals

Screw-type terminals

Screw-type terminals

type of connectable conductor cross-sections

- for main contacts
 - solid
 - stranded
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for main contacts

1x (2.5 ... 25 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

1x (2.5 ... 25 mm²)

1x (2.5 ... 16 mm²)

1x (10 ... 4)

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

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

type of minimum connectable cross-section for main contacts at AC-6b

- at 40 °C
- at 60 °C

1x 16 mm²

1x 25 mm²

AWG number as coded connectable conductor cross section for main contacts

10 ... 4

Safety related data

product function

- mirror contact according to IEC 60947-4-1
- positively driven operation according to IEC 60947-5-1

No

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

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)



[Confirmation](#)[Transport Information](#)

Further information

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=3RT2628-1AP05>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2628-1AP05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1AP05>

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

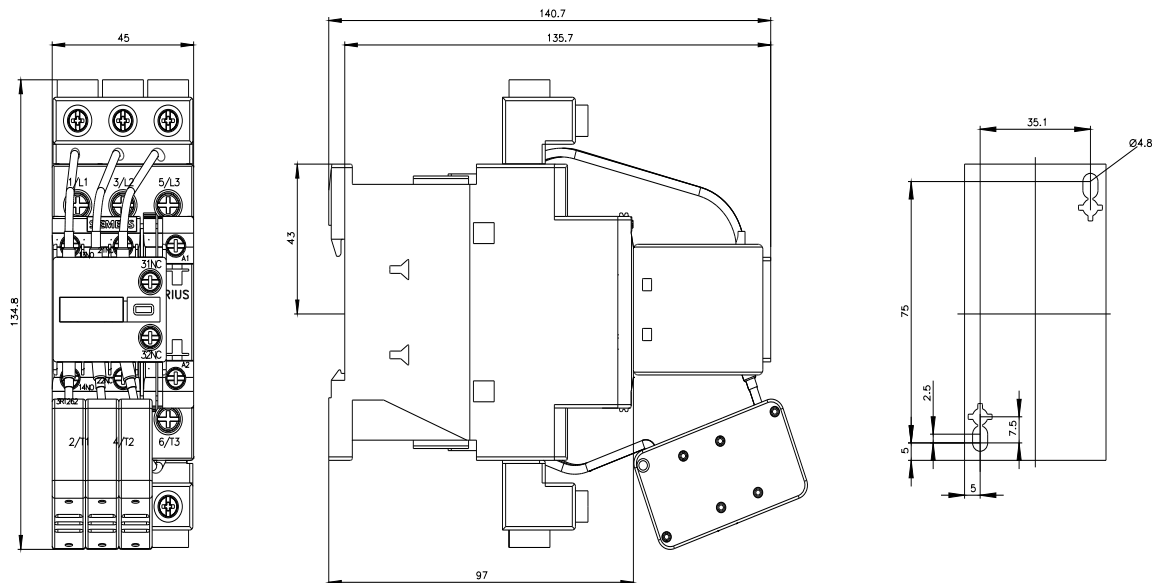
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2628-1AP05&lang=en

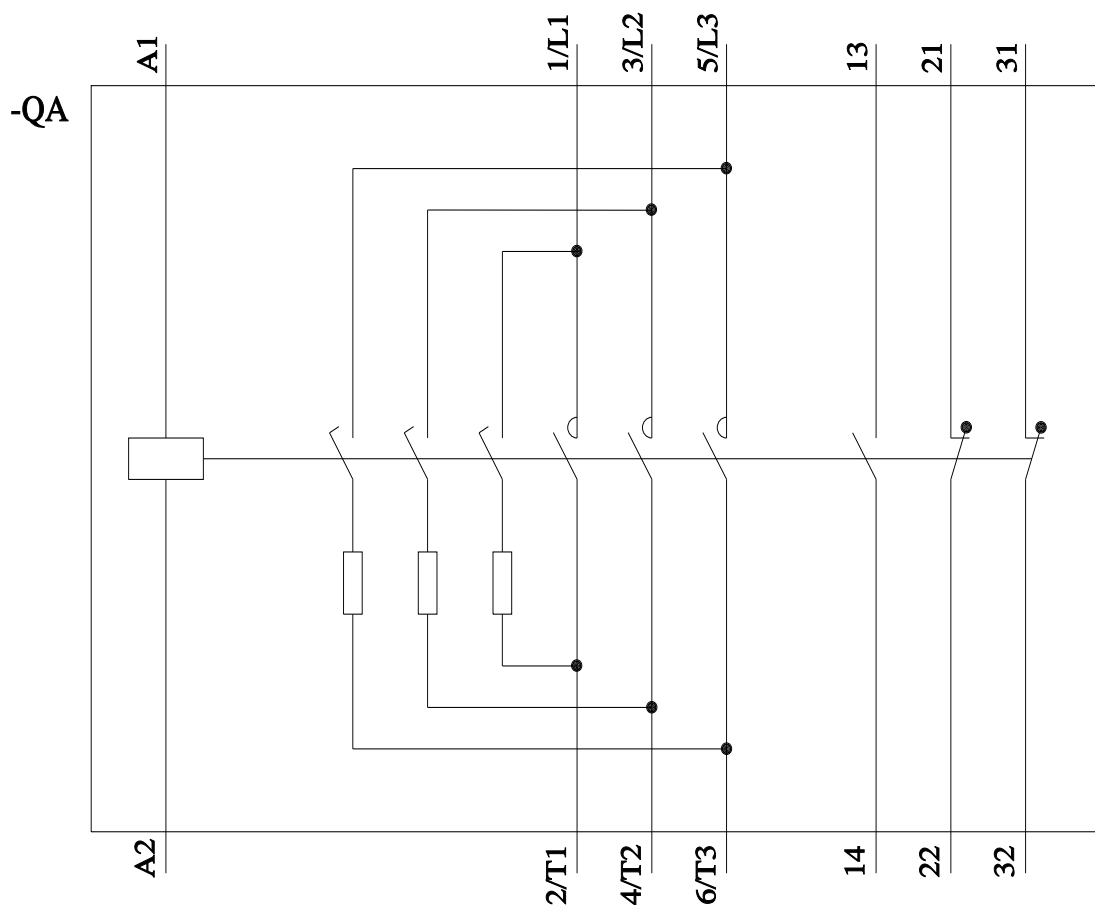
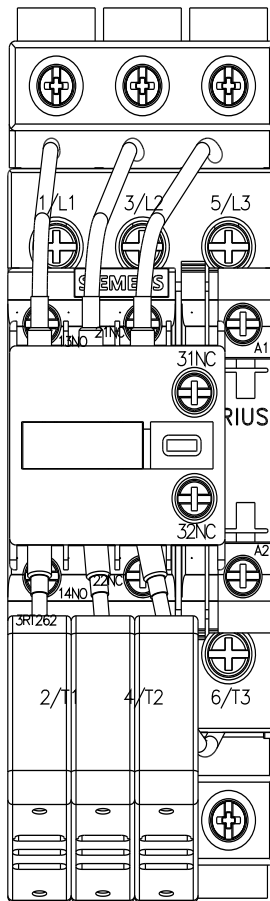
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1AP05/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1AP05&objecttype=14&gridview=view1>





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10/15/2022