

SIEMENS

Data sheet

3RT2637-1AP03



Capacitor contactor, AC-6b 75 kVAr, / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, Size S2 screw terminal

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6.8g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	10.6g / 5 ms, 6.2g / 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.05.2014
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 acc. to IEC 60068-2-30 maximum	95 %
Main circuit	
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	108 A
operating reactive power at AC-6b	
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	14 ... 43 kvar

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Subject to change without notice

- at 400 V at 50/60 Hz at ambient temperature 60 °C rated value
- at 500 V at 50/60 Hz at ambient temperature 60 °C rated value
- at 690 V at 50/60 Hz at ambient temperature 60 °C rated value

25 ... 75 kvar

31 ... 94 kvar

43 ... 129 kvar

no-load switching frequency

- at AC

500 1/h

operating frequency at AC-6b

- at 230 V maximum
- at 240 V maximum
- at 400 V maximum
- at 480 V maximum
- at 500 V maximum
- at 600 V maximum
- at 690 V maximum

100 1/h

100 1/h

100 1/h

50 1/h

45 1/h

32 1/h

25 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

190 V·A

inductive power factor with closing power of the coil

0.72

apparent holding power of magnet coil at AC

16 V·A

inductive power factor with the holding power of the coil

0.37

closing delay

- at AC

10 ... 80 ms

opening delay

- at AC

10 ... 18 ms

arcing time

10 ... 20 ms

control version of the switch operating mechanism

Standard A1 - A2

Auxiliary circuit**number of NC contacts for auxiliary contacts**

1

- attachable

1

- instantaneous contact

1

number of NO contacts for auxiliary contacts

1

- attachable

1

- 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**

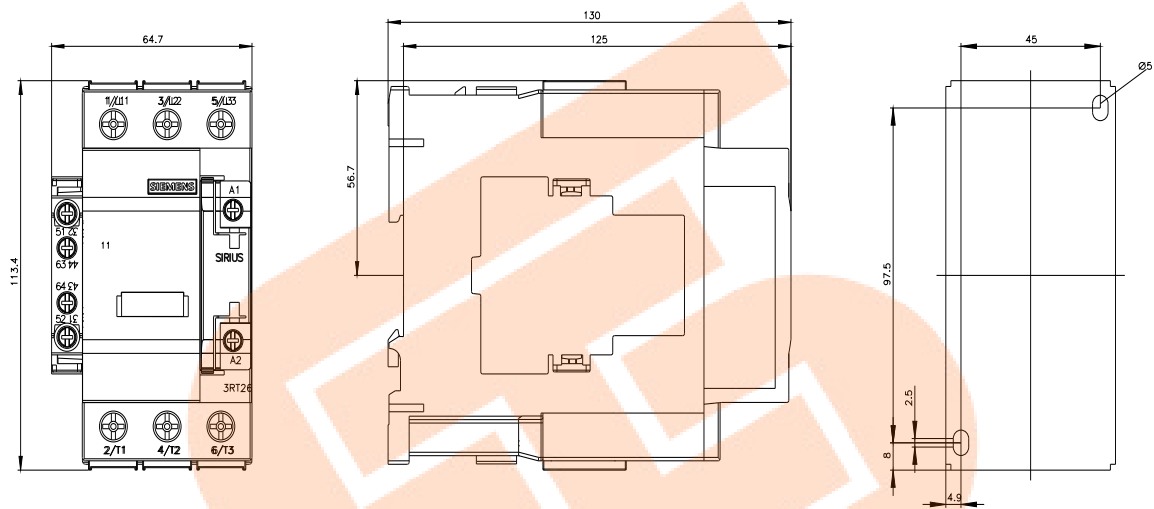
A600 / Q600

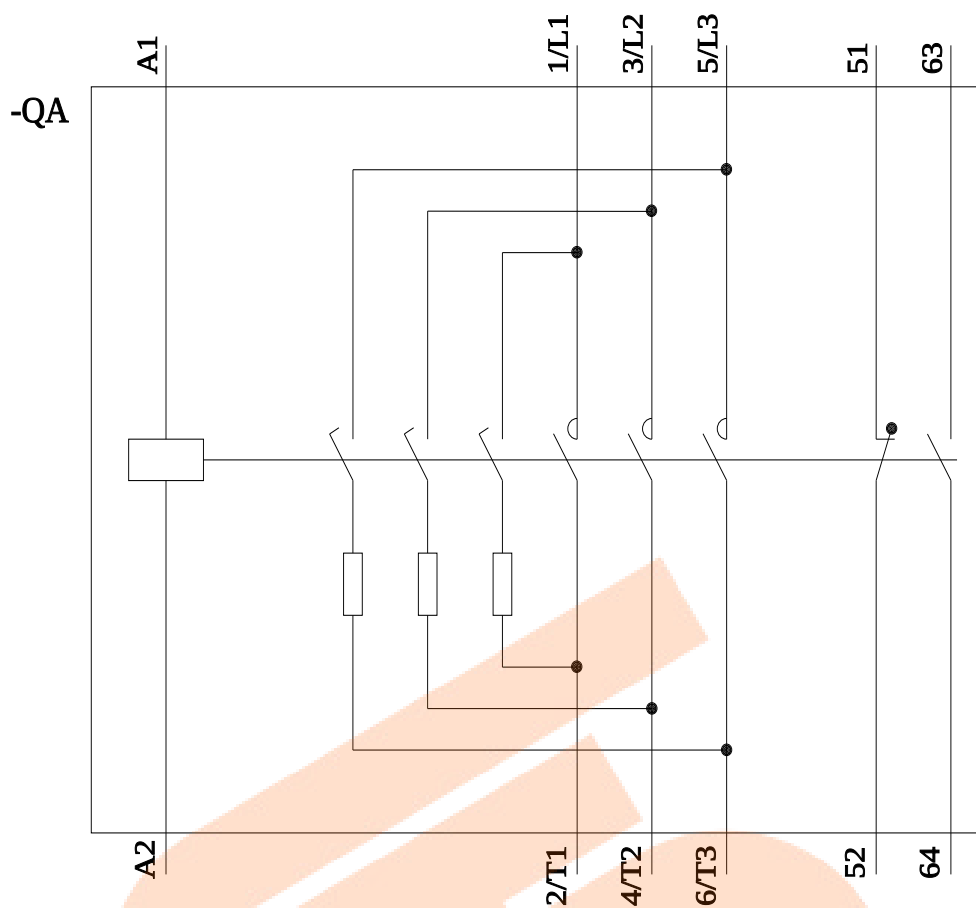
Short-circuit protection**design of the fuse link**

- for short-circuit protection of the main circuit with

gG: 200 A (690 V, 50 kA)

type of coordination 1 required 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	114 mm
width	65 mm
depth	130 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	2x (1 ... 16 mm²) 2x (10 ... 35 mm²), 1x (10 ... 50 mm²) 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) 2x (18 ... 2), 1x (18 ... 0)
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 50 mm² 2x 35 mm²
AWG number as coded connectable conductor cross section for main contacts	18 ... 0
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front





last modified:

12/8/2021