SIEMENS

Data sheet 3RT2628-1BF45

capacitor contactor, AC-6b 33 kVAr, / 400 V, 3-pole, 110 V DC, auxiliary contacts: 1 NO + 2 NC, screw terminal, size: S0

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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
● at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
● at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
● of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (operating 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 rated value	11 ... 33 kvar

● at 500 V at 50/60 Hz at ambient temperature 60 °C rated value	14 ... 41 kvar
● at 690 V at 50/60 Hz at ambient temperature 60 °C rated value	19 ... 57 kvar
no-load switching frequency	
● at DC	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	DC
type of voltage of the control supply voltage	DC
control supply voltage 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
opening delay	
● at DC	15 ... 18 ms
arcing time	10 ... 10 ms
control version of the switch operating mechanism	Standard A1 - A2
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
● at 690 V	1 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 DIN rail according to DIN EN 50022
height	150 mm

width	45 mm
depth	165 mm
required spacing	
● with side-by-side mounting at the side	10 mm
● for grounded parts at the side	10 mm

Connections/ Terminals

type of electrical connection	
● 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
type of connectable conductor cross-sections for main contacts	
● solid	1x (2.5 ... 25 mm²)
● stranded	2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)
● solid or stranded	1x (2,5 ... 25 mm²)
● finely stranded with core end processing	1x (2.5 ... 16 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
— 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
type of minimum connectable cross-sections for main contacts at AC-6b	
● at 40 °C	1x 16 mm²
● at 60 °C	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	No
● positively driven operation according to IEC 60947-5-1	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

CSA CCC UL EAC RCM

Declaration of Conformity | **Test Certificates** | **Marine / Shipping**

UKCA CE EG-Konf.

Type Test Certific-ates/Test Report

Bureau Veritas Lloyd's Register LRS RINA

other | **Dangerous Good**

Confirmation

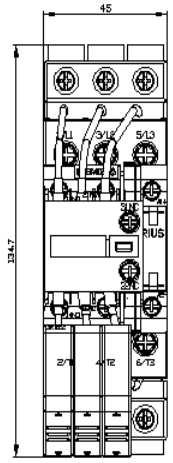
VDE

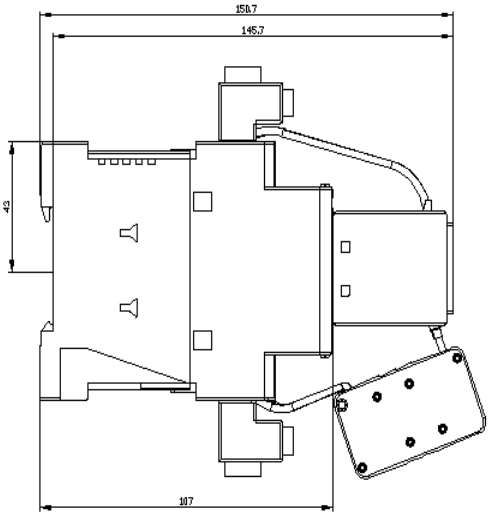
Transport Information

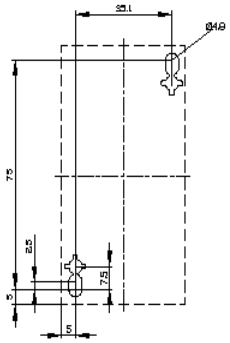
Further information

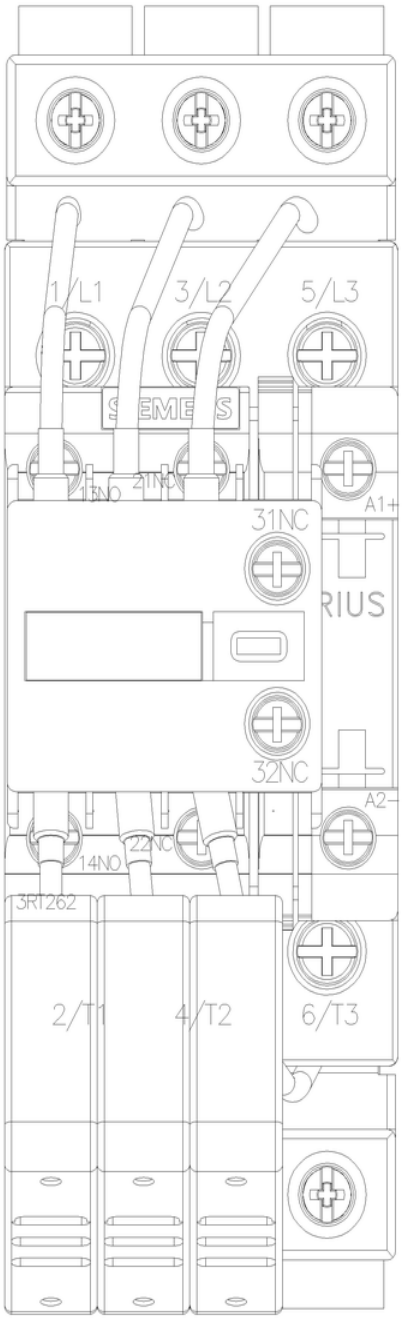
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification 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).

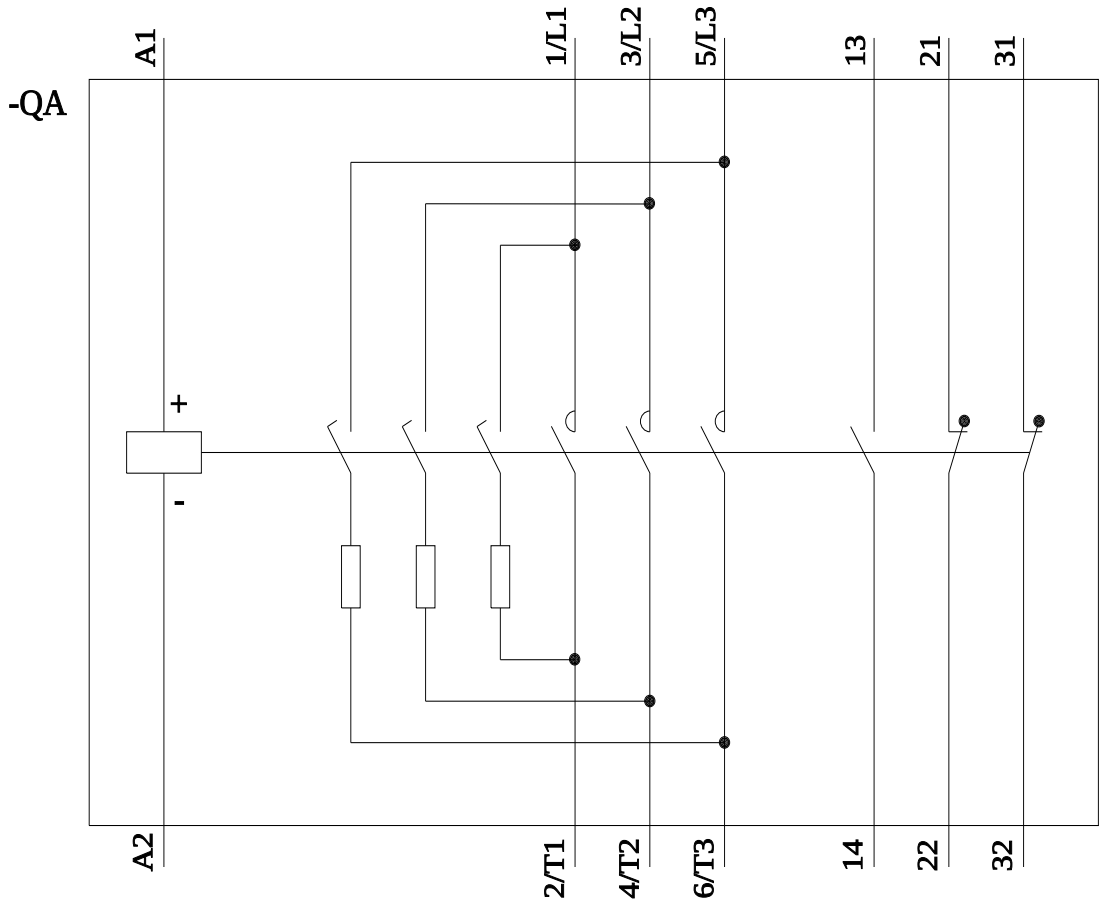
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2628-1BF45
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2628-1BF45
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1BF45
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2628-1BF45&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1BF45/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1BF45&objecttype=14&gridview=view1











last modified: 11/21/2022