SIEMENS

Data sheet 3RT2628-1BB45



capacitor contactor, AC-6b 33 kVAr, / 400 V, 3-pole, 24 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 	19 57 kvar
value	
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	oo mi
	DC
type of voltage	
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	0.8
• 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
	0.0 VV
closing delay • at DC	50 170 ms
	50 170 ms
opening delay	4540
• at DC	15 18 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>	
	16 mA
at DC at 24 V maximum permissible	16 mA
at DC at 24 V maximum permissible Auxiliary circuit	
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts	2
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable	2 0
 at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact 	2 0 2
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts	2 0 2 1
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable	2 0 2 1 0
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact	2 0 2 1 0
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current of auxiliary contacts at AC-12 maximum	2 0 2 1 0
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 contact rating of auxiliary contacts according to UL Short-circuit protection	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 contact rating of auxiliary contacts according to UL	2 0 2 1 0 1 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 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	2 0 2 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
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 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	2 0 2 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
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 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	2 0 2 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
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts 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 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	2 0 2 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

	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 mm ²
AWG number as coded connectable conductor cross section for main contacts	10 4
afety 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

General Product Approval





Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Dangerous Good

Confirmation



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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2628-1BB45

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2628-1BB45

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

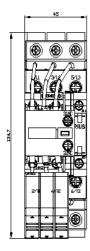
https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1BB4

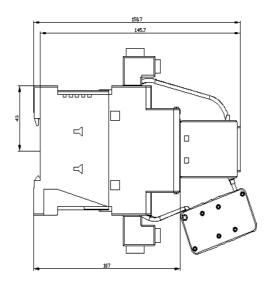
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

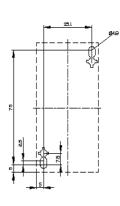
Characteristic: Tripping characteristics, I²t, Let-through current

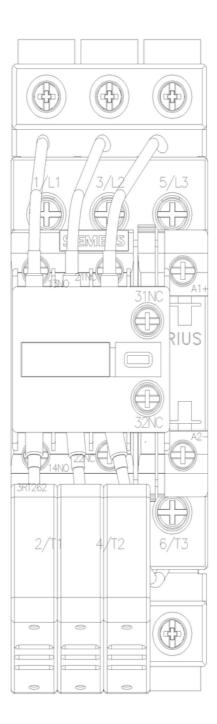
https://support.industry.siemens.com/cs/ww/en/ps/3RT26

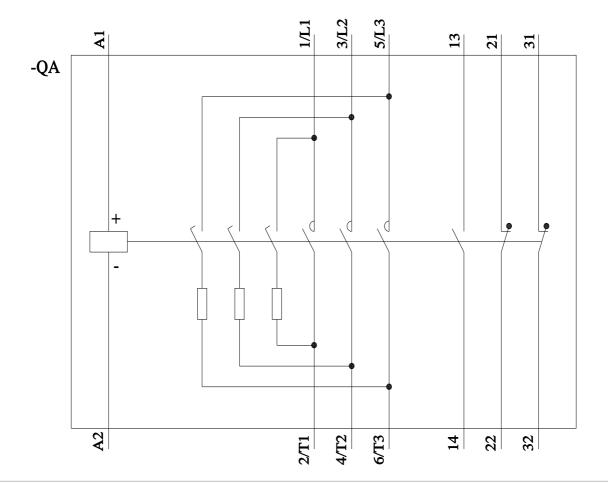
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1BB45&objecttype=14&gridview=view1











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