SIEMENS

Data sheet 3RT2617-1BB43



capacitor contactor, AC-6b 12.5 kVAr, / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S00

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S00
product extension auxiliary switch	No
power loss [W] for rated value of the current	
● at AC in hot operating state per pole	1.24 W
● without load current share typical	4 W
type of calculation of power loss current-dependent	quadratic
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	6,7 g / 5 ms, 4,2 g / 10 ms
shock resistance with sine pulse	
● at DC	10,5 g / 5 ms, 6,6 g / 10 ms
mechanical service life (operating cycles)	
● of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (operating cycles)	300 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (day/month/year)	05/01/2014
Net Weight	0.383 kg
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

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number of NC contacts for main contacts	0
operational current at AC-6b at 690 V at ambient temperature 60 °C rated value	18 A
operating reactive power at AC-6b	
● at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 7.2 kvar
● at 400 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 12.5 kvar
● at 500 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 15 kvar
● at 690 V at 50/60 Hz at ambient temperature 60 °C rated value	0 ... 21 kvar
no-load switching frequency	
● at DC	500 1/h
operating frequency at AC-6b	
● at 230 V maximum	180 1/h
● at 240 V maximum	180 1/h
● at 400 V maximum	180 1/h
● at 480 V maximum	180 1/h
● at 500 V maximum	180 1/h
● at 600 V maximum	180 1/h
● at 690 V maximum	180 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	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
● initial value	0.85
● full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
● at DC	30 ... 100 ms
opening delay	
● at DC	7 ... 13 ms
arcing time	10 ... 15 ms
control version of the switch operating mechanism	Standard A1 - A2
residual current of the electronics for control with signal <0>	
● at DC at 24 V maximum permissible	10 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
● attachable	0
● instantaneous contact	1
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	

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contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the main circuit with type of coordination 1 required	gG: 40 A (690 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (690 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	125 mm
width	45 mm
depth	120 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 terminal
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²
• stranded	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)
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 4 mm², 2x 2.5 mm²
• at 60 °C	2x 4 mm²
AWG number as coded connectable conductor cross section for main contacts	20 ... 12
Safety related data	
product function	
• **mirror contact according to IEC 60947-4-1**	No
• **positively driven operation according to IEC 60947-5-1**	No
Electrical Safety	
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
Approvals Certificates	
Environmental Product Declaration	
• global warming potential [CO2 eq] / during manufacturing	2.47 kg
• global warming potential [CO2 eq] / during operation	104 kg
• global warming potential [CO2 eq] / after end of life	-0.226 kg
• global warming potential [CO2 eq] / total	106 kg

Environment	**General Product Approval**

Environmental Confirmations

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