SIEMENS

Data sheet

3RT2617-1BB45



capacitor contactor, AC-6b 12.5 kVAr, / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NC, screw terminal, size: S00

product brand name	SIRIUS					
product designation	capacitor contactors					
product type designation	3RT26					
General technical data	General technical data					
size of contactor	S00					
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	6,7g / 5 ms, 4,2g / 10 ms					
shock resistance with sine pulse						
• at DC	10,5g / 5 ms, 6,6g / 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 (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 $^\circ\mathrm{C}$ 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 	0 21 kvar
value	0 2 I KVal
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	160 1/11
	50
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
	1.1
full-scale value closing power of magnet coil at DC	1.1 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	
NVZ	
 <0> at DC at 24 V maximum permissible 	10 mA
• at DC at 24 V maximum permissible	10 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 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	2 0 2 0 0
at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact attachable instantaneous contact	2 0 2 0 0 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 0 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 0 0 0 0 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 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 0 0 0 0 10 A 6 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 0 0 0 0 10 A 6 A 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 	2 0 2 0 0 0 0 10 A 6 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 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 0 0 0 0 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 	2 0 2 0 0 0 0 10 A 6 A 3 A 1 A 6 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 0 0 0 0 10 A 6 A 3 A 1 A 6 A 2 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 	2 0 2 0 0 0 0 10 A 6 A 3 A 1 A 6 A 2 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 0 0 0 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 0 0 0 0 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 0 0 0 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 contact reliability of auxiliary contacts 	2 0 2 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001
 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 0 0 0 0 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 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001
 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 20 V at 110 V at 220 V contact reliability of auxiliary contacts ul/CSA ratings contact rating of auxiliary contacts according to UL 	2 0 2 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001
 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-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 according to UL Short-circuit protection	2 0 2 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001
 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-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 according to UL Short-circuit protection design of the fuse link	2 0 2 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001
 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-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 0 0 0 0 10 A 6 A 3 A 1 A 6 A 2 A 1 A 0.9 A 0.3 A 0.0000001 A600 / Q600 gG: 40 A (690 V, 50 kA)

			backward by +/- 22.5° on ver	rtical 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							
	mounting at the side		10 mm				
 for grounded parts at the side 		10 mm					
Connections/ Terminals							
type of electrical conne	ection						
 for main current ci 			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 cond	ductor cross-sections for	main contacts					
• solid			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm^2 2x 4 mm ²			
stranded			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²				
 solid or stranded 			2x (0.5 1,5 mm ²), 2x (0.75				
	th core end processing		2x (0,5 1,5 mm ²), 2x (0,75 2x (0.5 1.5 mm ²), 2x (0.75				
type of connectable co		e	ZA (0.0 1.0 mint), ZA (0.75	2.0 mm)			
		3					
 for auxiliary contains 	013		$2x (0.5 + 1.5 mm^2) - 2x (0.75)$	25 mm^2 $2 \text{ v} 4 \text{ mm}^2$			
	— solid		2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²				
— solid or stran		aina	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²				
	ed with core end process	siilg	2x (0.5 1.5 mm ²), 2x (0.75				
for AWG cables for type of minimum conner contacts at AC 6b	-	for main	2x (20 16), 2x (18 14), 2	2X 12			
contacts at AC-6b							
	• at 40 °C			1x 4 mm², 2x 2.5 mm²			
• at 60 °C			2x 4 mm ²				
AWG number as coded main contacts	connectable conductor c	cross section for	20 12				
Safety related data							
product function							
 mirror contact acc 	cording to IEC 60947-4-1		No				
	peration according to IE		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	J		;;;;;;;				
General Product Appro	oval				EMC		
eeneral reduct tippit							
	Confirmation				Δ		
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		9		LIIL	يد		
CSA		ccc	UL		RCM		
De classificar of Occufere	- 14 -	Test					
Declaration of Conform	nity	Test Certificate	es Marine / Shipping				
		Type Test Cer	tific-		(SPD)		
()	UK	ates/Test Rep		Lloyds	(33)		
	UK CA			Register	C AND		
EG-Konf.			BUREAU	LRS	PRS		
			VERITAS				
Marine / Shipping	other		Dangerous Good				
	Confirment		Territoria (C. C. 1997)				
	Confirmation		Transport Information	1			
(SER)		ζ <u>ρ.</u> Ελ					
RINA		VDE					
Further information							
A I I I I I I I I I I							

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=3RT2617-1BB45 https://r

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2617-1BB45

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1BB4

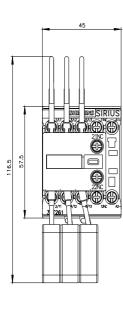
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

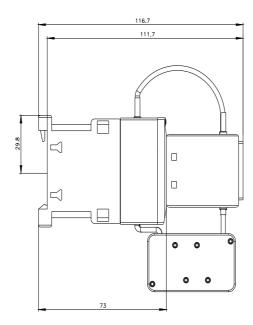
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2617-1BB45&lang=en

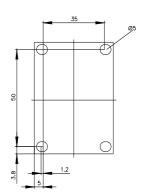
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1BB45/char

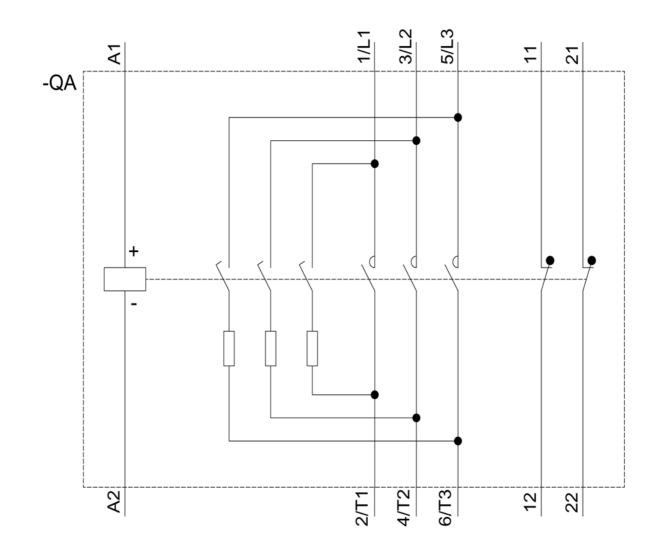
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2617-1BB45&objecttype=14&gridview=view1







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