SIEMENS

Data sheet

3RT2617-1AP03



Capacitor contactor, AC-6b 12.5 kVAr, / 400 V 1 NO + 1 NC, 230 V AC, 50/60 Hz 3-pole, Size S00 screw terminal

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
 of the contactor with added auxiliary switch block typical 	3 000 000
electrical endurance (switching 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 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	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	0 21 kvar
rated value	
no-load switching frequency • at AC	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	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
control supply voltage frequency	
 1 rated value 	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	49 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	7.8 VA
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	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 AC at 230 V maximum permissible	3 mA
Auxiliary circuit	
	1
number of NC contacts for auxiliary contacts attachable 	0
attachable instantaneous contact	1
	1
number of NO contacts for auxiliary contacts attachable 	
	0
instantaneous contact	
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	1A
• at 125 V	0.9 A
• at 220 V	0.3 A
	0.07

contact reliability of auxiliary contacts	0.0000001			
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: 40 A (690 V, 50 kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
nstallation/ 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	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-type terminals			
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)			
 at AWG cables for main contacts 	2x (20 16), 2x (18 14), 2x 12			
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)			
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12			
type of minimum connectable cross-section for main contacts at AC-6b				
• at 40 °C	1x 4 mm², 2x 2.5 mm²			
at 60 °C AWG number as coded connectable conductor cross section for main contacts	2x 4 mm² 20 12			
Safety related data				
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 Confirmation				

Declaration of Conformity	Test Certificates	Marine / Shipping		
C E EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	B U R E A U VERITAS	PRS	RINA
other	Dangerous Good			
	<u>Transport Informa-</u> <u>tion</u>			

Further information

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=3RT2617-1AP03

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2617-1AP03

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1AP03

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

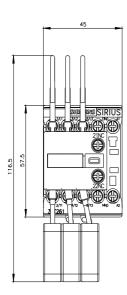
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2617-1AP03&lang=en

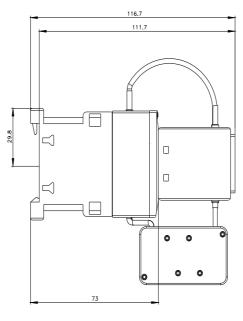
Characteristic: Tripping characteristics, I²t, Let-through current

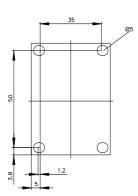
https://support.industry.siemens.com/cs/ww/en/ps/3RT2617-1AP03/char

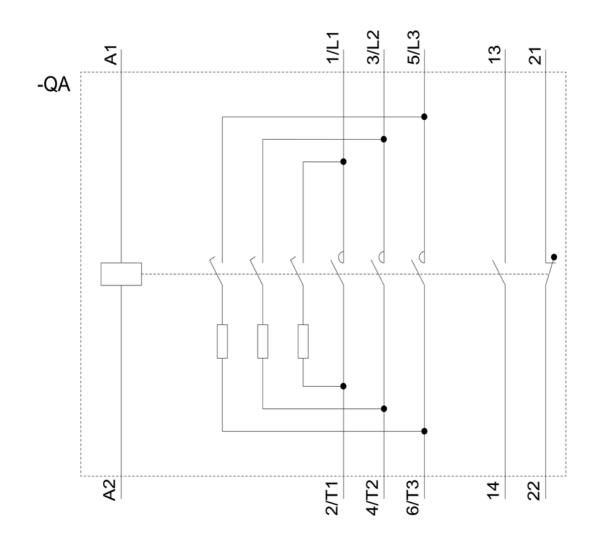
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2617-1AP03&objecttype=14&gridview=view1









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