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
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 acc. 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
● ambient temperature during operation	-25 ... +60 °C
● ambient temperature during storage	-55 ... +80 °C
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 rated value	0 ... 21 kvar
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
● control supply voltage at AC 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 V·A
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	7.8 V·A
inductive power factor with the holding power of the coil	0.25
closing delay	
● at AC	8 ... 33 ms
arcing time	10 ... 15 ms
residual current of the electronics for control with signal <0>	
● at AC at 230 V maximum permissible	3 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
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: 40 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 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
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	2x 4 mm²
AWG number as coded connectable conductor cross section for main contacts	20 ... 12
Safety related data	
product function	
● mirror contact acc. to IEC 60947-4-1	No
● positively driven operation acc. to IEC 60947-5-1	No
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval				EMC	
CSA	CCC	UL		RCM	RCM

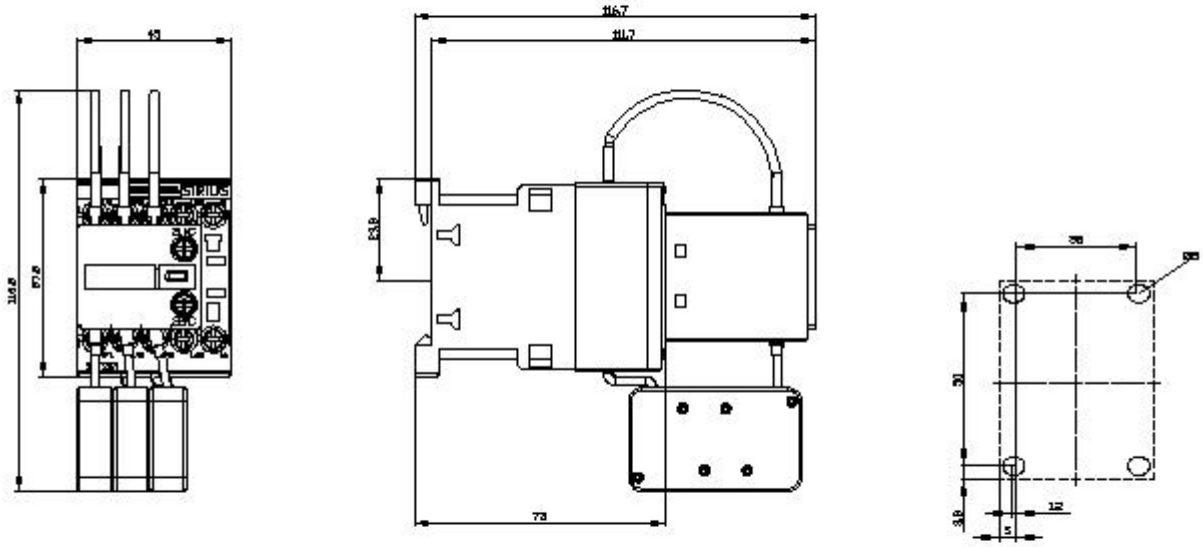
Declaration of Conformity		Test Certificates	Marine / Shipping		
Miscellaneous	EG-Konf.	Type Test Certificates/Test Report	BUREAU VERITAS	PRS	RINA

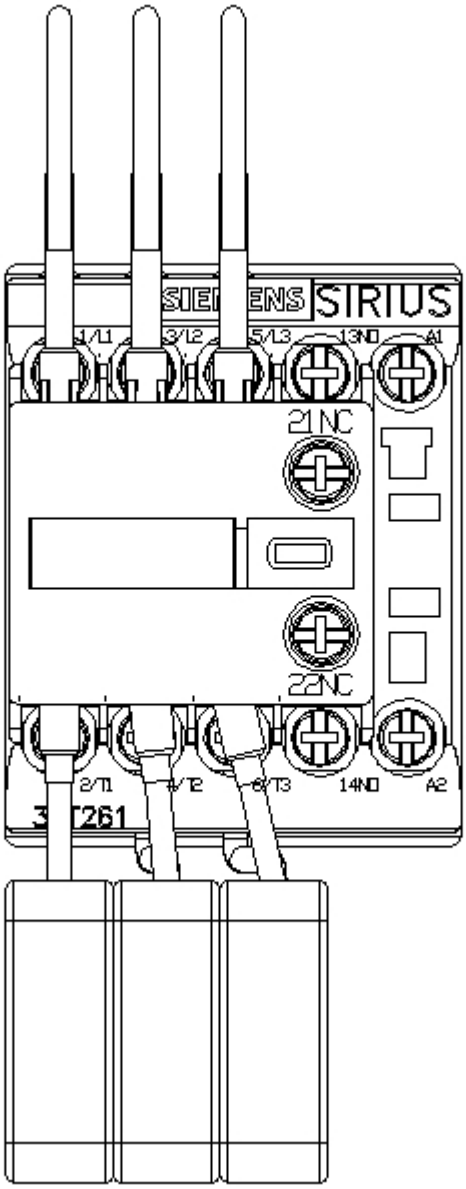
other

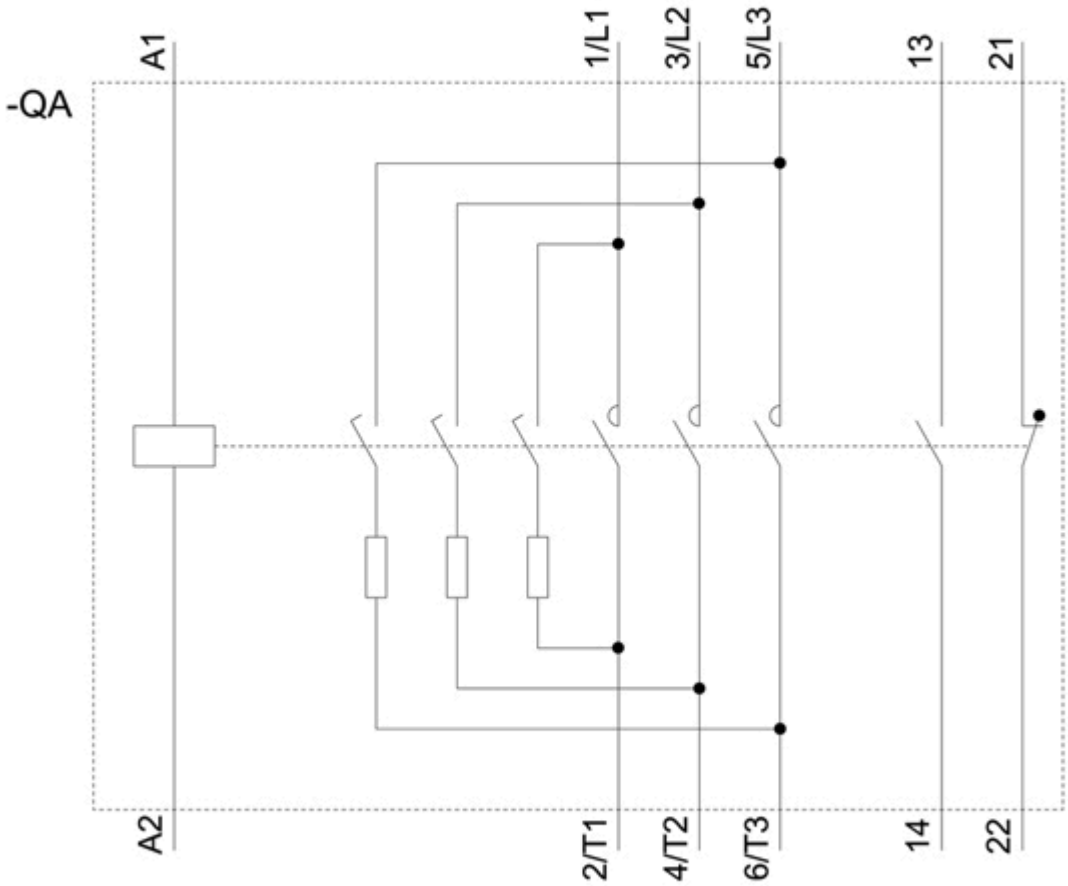
Confirmation

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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