SIEMENS

Data sheet 3RT2646-1AP03



capacitor contactor, AC-6b 100 kVAr, / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S3
product extension auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	8 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 AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
of the contactor with added auxiliary switch block typical	3 000 000
electrical endurance (operating cycles)	120 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	06/26/2017
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	144 A
operating reactive power at AC-6b	
 at 230 V at 50/60 Hz at ambient temperature 60 °C rated value 	19 57 kvar
 at 400 V at 50/60 Hz at ambient temperature 60 °C rated value 	33 100 kvar

• at 500 V at 50/60 Hz at ambient temperature 60 °C rated	41 125 kvar
value • at 690 V at 50/60 Hz at ambient temperature 60 °C rated	57 172 kvar
value	57 172 KVdI
no-load switching frequency	
• at AC	500 1/h
operating frequency at AC-6b	
• at 230 V maximum	150 1/h
• at 240 V maximum	150 1/h
 at 400 V maximum 	80 1/h
• at 480 V maximum	53 1/h
 at 500 V maximum 	53 1/h
• at 600 V maximum	32 1/h
• at 690 V maximum	30 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 frequency	
• 1 rated value	50 Hz
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	296 VA
inductive power factor with closing power of the coil	0.61
apparent holding power of magnet coil at AC	19 VA
inductive power factor with the holding power of the coil	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
attachable	1
• instantaneous contact	1
number of NO contacts for auxiliary contacts	1
attachable	1
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 230 V • at 400 V	3 A
• at 400 V	0 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
contact reliability of auxiliary contacts	0.00000001
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	1000 / 0000
Short-circuit protection	A600 / Q600
	A600 / Q600
design of the fuse link	A600 / Q600
design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required	gG: 250 A (690 V, 50 kA)
for short-circuit protection of the main circuit with type of	
 for short-circuit protection of the main circuit with type of coordination 1 required 	gG: 250 A (690 V, 50 kA)
for short-circuit protection of the main circuit with type of coordination 1 required for short-circuit protection of the auxiliary switch required	gG: 250 A (690 V, 50 kA)

	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	140 mm		
width	80 mm		
depth	152 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 (10 16 mm²)		
stranded	2x (10 70 mm²), 1x (10 70 mm²)		
 solid or stranded 	2x (10 70 mm²), 1x (10 70 mm²)		
 finely stranded with core end processing 	2x (10 50 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 70 mm²		
● at 60 °C	2x 50 mm²		
AWG number as coded connectable conductor cross section for main contacts	8		
Safety 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		
Certificates/ approvals			
General Product Approval		EMC	

Confirmation





<u>KC</u>





Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other **Dangerous Good**

Confirmation <u>Transport Information</u>

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2646-1AP03

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2646-1AP03

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

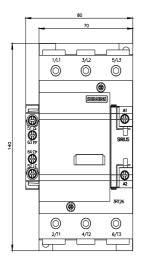
https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AP03

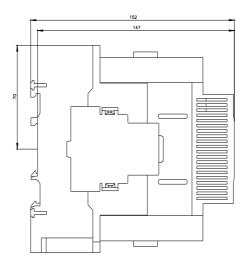
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

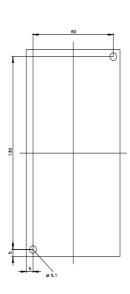
Characteristic: Tripping characteristics, I²t, Let-through current

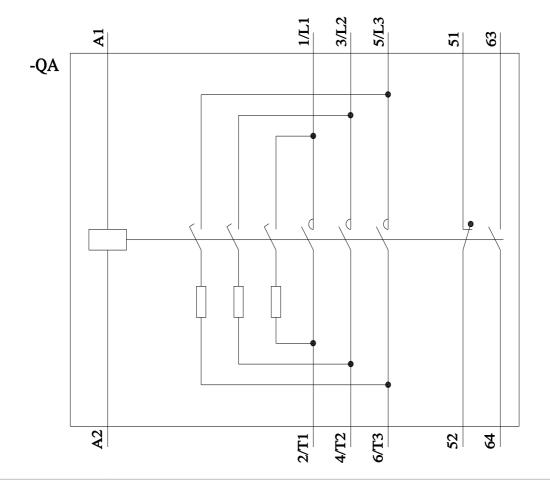
https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AP03/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2646-1AP03&objecttype=14&gridview=view1









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