

Data sheet

3RT2627-1AK65

CONTACTOR, AC-6B, 25KVAR/400V, 1NO+2NC, 110 V AC 50HZ /
120 V AC 60 HZ, 3-POLE, SIZE S0 SCREW TERMINAL

product brandname	SIRIUS
Product designation	capacitor contactors
Product type designation	3RT26

General technical data

Size of contactor	S0
Product extension	
• Auxiliary switch	No
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN 60947-1	400 V
Protection class IP	
• on the front	IP20
Shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
Shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
Mechanical service life (switching cycles)	
• of the contactor with added auxiliary switch block typical	3 000 000
Electrical endurance (switching cycles)	200 000

Ambient conditions

Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C

Main circuit

Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-6b at 690 V at ambient temperature 60 °C rated value	36 A
No-load switching frequency	

• at AC	500 1/h
Operating frequency at AC-6b	
• at 230 V maximum	100 1/h
• at 240 V maximum	100 1/h
• at 400 V maximum	100 1/h
• at 480 V maximum	100 1/h
• at 500 V maximum	100 1/h
• at 600 V maximum	100 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	110 ... 110 V
• at 60 Hz rated value	120 ... 120 V
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	77 V·A
Inductive power factor with closing power of the coil	0.82
Apparent holding power of magnet coil at AC	9.8 V·A
Inductive power factor with the holding power of the coil	0.25
Closing delay	
• at AC	8 ... 40 ms
Arcing time	10 ... 15 ms
Residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	7 mA

Auxiliary circuit

Number of NC contacts	
• for auxiliary contacts	2
— attachable	0
— instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	1
— attachable	0
— instantaneous contact	1
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
• at 230 V	6 A
• at 400 V	3 A

Operating 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	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Height	135 mm
Width	45 mm
Depth	155 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 current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts — solid	2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)
— stranded	2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)
— single or multi-stranded	2x (1 ... 2,5 mm²), 2x (2,5 ... 10 mm²)
— finely stranded with core end processing	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²
• at AWG conductors for main contacts	2x (16 ... 12), 2x (14 ... 8)
Type of connectable conductor cross-sections	

- for auxiliary contacts

- solid
- single or multi-stranded
- finely stranded with core end processing

- at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

Type of minimum connectable cross-section for main contacts at AC-6b

- at 40 °C
- at 60 °C

1x 10 mm²

2x 10 mm²

Safety related data

Product function

- Mirror contact acc. to IEC 60947-4-1
- positively driven operation acc. to IEC 60947-5-1

No

No

Certificates/approvals

General Product Approval

Declaration of Conformity

Shipping Approval



EG-Konf.



ABS



BUREAU VERITAS

Shipping Approval

other



GL



LRS



RINA



RMRS

[Bestätigungen](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2627-1AK65>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2627-1AK65>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1AK65>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2627-1AK65&lang=en

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