SIEMENS

Data sheet 3RT1044-1AP00

CONTACTOR, AC-3 30 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION $\,$



Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:	
Size of contactor	S3
Insulation voltage	
Rated value	1 000 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP00
of the terminal	IP00
Degree of pollution	3
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch block typical 	10 000 000
block typical	

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Aain circuit:	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	100 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	100 A
— at ambient temperature 60 °C Rated value	90 A
● at AC-3	
— at 400 V Rated value	65 A
— at 690 V Rated value	47 A
Connectable conductor cross-section in main circuit	
at AC-1	
 at 60 °C minimum permissible 	35 mm ²
• at 40 °C minimum permissible	35 mm ²
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	28 A
• at 690 V Rated value	20 A
Operating current	
• at 1 current path at DC-1	
— at 24 V Rated value	90 A
— at 110 V Rated value	4.5 A
 with 2 current paths in series at DC-1 	
— at 24 V Rated value	90 A
— at 110 V Rated value	90 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	90 A
— at 110 V Rated value	90 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V Rated value	40 A
— at 110 V Rated value	2.5 A

• with 2 current paths in series at DC-3 at DC-5

- at 110 V Rated value

— at 24 V Rated value

90 A

90 A

• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	90 A
— at 24 V Rated value	90 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	34 kW
— at 400 V Rated value	59 kW
— at 690 V Rated value	102 kW
— at 690 V at 60 °C Rated value	102 kW
• at AC-2 at 400 V Rated value	30 kW
• at AC-3	
— at 230 V Rated value	18.5 kW
— at 400 V Rated value	30 kW
— at 500 V Rated value	37 kW
— at 690 V Rated value	45 kW
Operating power for ≥ 200000 operating cycles at	
AC-4	
• at 400 V Rated value	15.1 kW
• at 690 V Rated value	18.6 kW
Thermal short-time current limited to 10 s	600 A
Active power loss at AC-3 at 400 V for rated value of	4.6 W
the operating current per conductor	
No-load switching frequency	5 000 1/h
• at AC	3 000 1/11
Operating frequency	1 000 1/h
• at AC-1 maximum	400 1/h
• at AC-2 maximum	
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz Rated value	230 V
Rated value	50 Hz
Operating range factor control supply voltage rated value of the magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of the magnet coil at AC	218 V·A
Inductive power factor with closing power of the coil	0.61
Apparent holding power of the magnet coil at AC	21 V·A
Inductive power factor with the holding power of the coil	0.26

Closing dolay	
Closing delay ● at AC	16 57 ms
	10 15 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	0
Number of NO contacts	
for auxiliary contacts	
 instantaneous contact 	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
● at 230 V Rated value	6 A
• at 400 V Rated value	3 A
Operating current at DC-12	
● at 60 V Rated value	6 A
● at 110 V Rated value	3 A
• at 220 V Rated value	1 A
Operating current at DC-13	
• at 24 V Rated value	10 A
● at 60 V Rated value	2 A
● at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
01 - 1 - 1 - 1	
Short-circuit: Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 250 A
	fuse gL/gG: 125 A
— with type of assignment 2 required	fuse gL/gG: 10 A
 for short-circuit protection of the auxiliary switch required 	iuse gL/gG. 10 A
Installation/ mounting/ dimensions:	
Mounting type	screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
Side-by-side mounting	Yes
Height	146 mm
Width	70 mm
Depth	139 mm
Required spacing	

• for grounded parts

- at the side

6 mm

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Baumusterbescheini gung



Test Certificates **Shipping Approval**

spezielle Prüfbescheinigunge

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GL



LRS





other

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Bestätigungen

Umweltbestätigung

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10441AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT10441AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10441AP00&lang=en



