SIEMENS

Data sheet

3RT1034-1BB44-0AA1-Z W97

CONTACTOR, AC-3 15 KW/400 V, 24 V DC, 3-POLE, S2 MODULE, 2NO + 2NC, SCREW-CONNECTION, SNAP-ON MOUNT. VARISTOR MULTIPLE PACKING PACK = 7 UNITS



Figure similar

product brand name	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S2
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 	400 V
60947-1	
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Shock resistance	
at rectangular impulse	
— at DC	10g / 5 ms, 5g / 10 ms

with sine pulse	
— at DC	15g / 5 ms, 8g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions	

Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
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
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	50 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
 up to 690 V at ambient temperature 60 °C rated value 	45 A
• at AC-3	
— at 400 V rated value	32 A
— at 690 V rated value	20 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	10 mm²
• at 40 °C minimum permissible	16 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	15.6 A
• at 690 V rated value	11 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	45 A
— at 110 V rated value	4.5 A
• with 2 current paths in series at DC-1	

— at 24 V rated value	45 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	45 A
— at 110 V rated value	45 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 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	25 A
— at 24 V rated value	45 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	45 A
— at 24 V rated value	45 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	18 kW
— at 400 V rated value	31 kW
— at 690 V rated value	54 kW
— at 690 V at 60 °C rated value	54 kW
• at AC-2 at 400 V rated value	15 kW
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	8.2 kW
• at 690 V rated value	10 kW
Thermal short-time current limited to 10 s	320 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.8 W
No-load switching frequency	
• at DC	1 500 1/h
Operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	250 1/h

Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• rated value	24 V
Operating range factor control supply voltage rated	0.8 1.1
value of magnet coil at DC	
Closing power of magnet coil at DC	13.3 W
Holding power of magnet coil at DC	13.3 W
Closing delay	
• at DC	50 95 ms
Opening delay	
• at DC	20 30 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts	
for auxiliary contacts	
instantaneous contact	2
Number of NO contacts	
 for auxiliary contacts 	
instantaneous contact	2
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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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	fuse gL/gG: 125 A
	fuse gL/gG: 63 A
 — with type of assignment 2 required 	iuse gu/go. oo A

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 10 A

Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	112 mm
Width	55 mm
Depth	179 mm
Required spacing	
for grounded parts	
— at the side	6 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 (0.75 16 mm²)
— stranded	2x (0.75 25 mm²)
— single or multi-stranded	2x (0,75 16 mm²)
 finely stranded with core end processing 	2x (0.75 16 mm²)
 finely stranded without core end 	2x (0.75 16 mm²)
processing	
 at AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates

Shipping Approval







Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge

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Shipping Approval











other

Umweltbestätigung

Bestätigungen

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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=3RT1034-1BB44-0AA1-Z W97

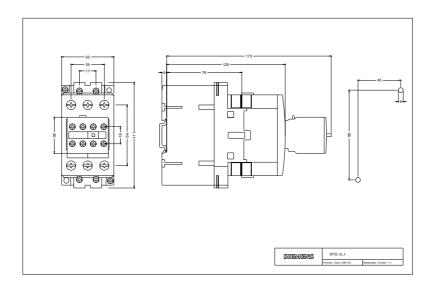
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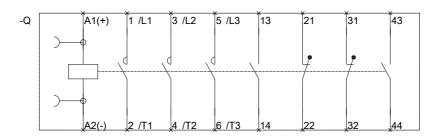
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1034-1BB44-0AA1-Z W97

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-1BB44-0AA1-Z W97

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1034-1BB44-0AA1-Z W97&lang=en





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