



CONTACTOR, AC-3 18.5 KW,400V, DC 24 V, 4-POLE, 2 NO + 2 NC, SIZE S2, SCREW CONNECTION AVAILABLE MARCH '98

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
Mechanical service life (switching cycles)	
• of the 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
Protection class IP	
• on the front	IP00
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
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

Main circuit:

Number of poles for main current circuit	4
Number of NC contacts for main contacts	2
Number of NO contacts for main contacts	2
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	16 mm ²
• at 40 °C minimum permissible	16 mm ²
Operating current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	60 A
— at ambient temperature 60 °C Rated value	55 A
• at AC-2 at AC-3 at 400 V	
— per NO contact Rated value	40 A
— per NC contact Rated value	40 A
Operating current	
• with 1 current path at DC-1	
— at 24 V Rated value	50 A
— at 110 V Rated value	4.5 A
— at 220 V Rated value	1 A
— at 440 V Rated value	0.4 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	50 A
— at 110 V Rated value	45 A
— at 220 V Rated value	5 A
— at 440 V Rated value	1 A
Operating current	
• with 1 current path at DC-3 at DC-5	
— at 24 V per NC contact Rated value	35 A
— at 24 V per NO contact Rated value	35 A
— at 110 V per NC contact Rated value	1.25 A
— at 110 V per NO contact Rated value	2.5 A
— at 220 V per NC contact Rated value	0.5 A
— at 220 V per NO contact Rated value	1 A
— at 440 V per NC contact Rated value	0.05 A
— at 440 V per NO contact Rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V per NC contact Rated value	12.5 A
— at 110 V per NO contact Rated value	25 A
— at 220 V per NC contact Rated value	2.5 A
— at 220 V per NO contact Rated value	5 A
— at 24 V per NC contact Rated value	50 A

— at 24 V per NO contact Rated value	50 A
— at 440 V per NC contact Rated value	0.135 A
— at 440 V per NO contact Rated value	0.27 A
Operating power	
• at AC-2 at AC-3	
— at 230 V per NC contact Rated value	9.5 kW
— at 230 V per NO contact Rated value	9.5 kW
— at 400 V per NC contact Rated value	18.5 kW
— at 400 V per NO contact Rated value	18.5 kW
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	2.6 W
Operating frequency	
• at AC-1 maximum	1 000 1/h

Control circuit/ Control:

Type of voltage of the control supply voltage	DC
Control supply voltage for DC	
• Rated value	24 V
Operating range factor control supply voltage rated value of the magnet coil for DC	0.8 ... 1.1
Closing power of the magnet coil for DC	13.3 W
Holding power of the magnet coil for DC	13.3 W
Closing delay	
• with AC	4 ... 35 ms
• for DC	50 ... 110 ms
Arcing time	10 ... 15 ms
Control version of the switch operating mechanism	conventional
Residual current of the electronics for control with signal <0>	
• for DC at 24 V maximum permissible	0.038 A

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)

Short-circuit:

Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 160 A
— with type of assignment 2 required	fuse gL/gG: 80 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
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	73 mm
Depth	130 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-section	
• 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 processing	2x (0.75 ... 16 mm²)
• for AWG conductors for main contacts	2x (18 ... 2)
Type of connectable conductor cross-section	

- for auxiliary contacts
 - solid
 - single or multi-stranded
 - finely stranded with core end processing
- for AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)
 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)
 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
 2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
			Type Examination		Special Test Certificate
CSA	UL			EG-Konf.	

Shipping Approval



other

[Environmental Confirmations](#) [Confirmation](#) [other](#)

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

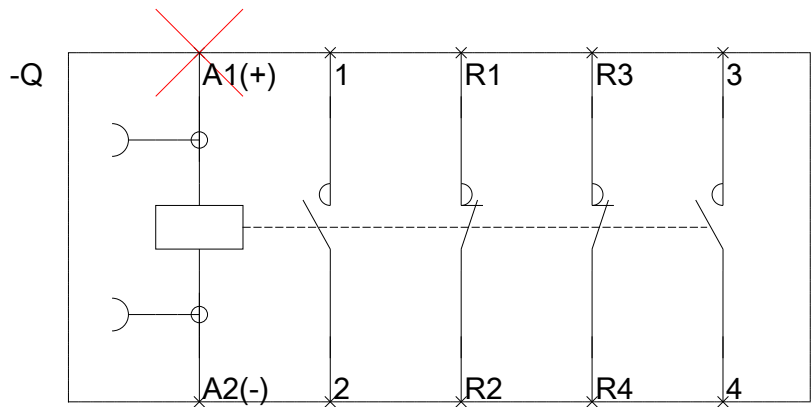
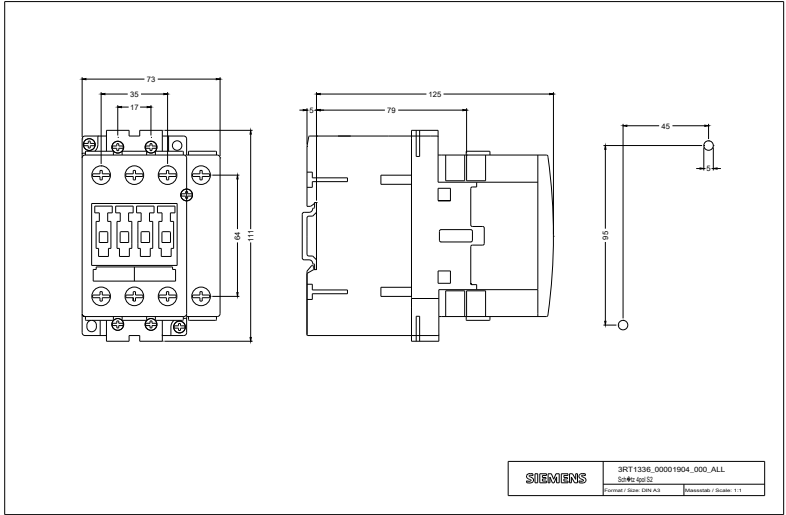
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT15351BB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT15351BB40>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT15351BB40&lang=en



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