# **SIEMENS**

### Data sheet

## 3RT1025-1AC24-0AA1-Z W97

CONTACTOR, AC-3 7.5 KW/400 V, 24 V AC, 50/60 HZ, 3-POLE, S0 MODULE, 2NO + 2NC SCREW-CONNECTION, SNAP-ON MOUNT. VARISTOR MULTIUNIT PACKING 1 PACK = 12 UNITS



Figure similar

product brand name	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S0
Degree of pollution	3
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m

Ambient temperature	
during operation	-25 +60 °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	ů.
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	40 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	17 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
<ul><li>with 2 current paths in series at DC-1</li></ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
<ul><li>with 3 current paths in series at DC-1</li></ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
Operating current	
<ul><li>at 1 current path at DC-3 at DC-5</li></ul>	
— at 24 V rated value	20 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	15 A
— at 24 V rated value	35 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	35 A
— at 24 V rated value	35 A
Operating power	
• at AC-1	
— at 400 V rated value	23 kW
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	

— at 400 V rated value	7.5 kW
— at 500 V rated value	10 kW
— at 690 V rated value	11 kW
Power loss [W] at AC-3 at 400 V for rated value of	0.9 W
the operating current per conductor	

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	64 V·A
Inductive power factor with closing power of the coil	0.72
Apparent holding power of magnet coil at AC	8.4 V·A
Inductive power factor with the holding power of the coil	0.24

Auxiliary circuit	
Number of NC contacts	
<ul><li>for auxiliary contacts</li></ul>	
<ul><li>instantaneous contact</li></ul>	2
Number of NO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>instantaneous contact</li></ul>	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)

#### Short-circuit protection

### Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

- with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 63 A

fuse gL/gG: 25 A

fuse gL/gG: 10 A

Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 50022
<ul> <li>Side-by-side mounting</li> </ul>	Yes
Height	85 mm
Width	45 mm
Depth	140 mm
Required spacing	
<ul> <li>for grounded parts</li> </ul>	
— at the side	6 mm

Connections/Terminals
Type of electrical connection

• for main current circuit

• for auxiliary and control current circuit

screw-type terminals

#### screw-type terminals

### Type of connectable conductor cross-sections

• for main contacts

— solid

— single or multi-stranded

— finely stranded with core end processing

• at AWG conductors for main contacts

## 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²

2x (1 ... 2,5 mm<sup>2</sup>), 2x (2,5 ... 6 mm<sup>2</sup>), max. 2x 10 mm<sup>2</sup>

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)

2x (16 ... 12), 2x (14 ... 10), 1x 8

### Type of connectable conductor cross-sections

• for auxiliary contacts

— solid

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

 $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2), \text{ max. } 2x (0.75 \dots 4 \text{ mm}^2)$ 

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**

### **Declaration of** Conformity

### **Test Certificates**









Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge

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### **Shipping Approval**













**Shipping Approval**  other

Bestätigungen

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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=3RT1025-1AC24-0AA1-Z W97

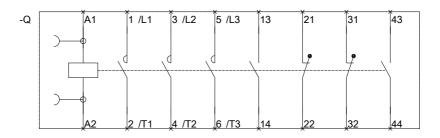
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1025-1AC24-0AA1-Z W97

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1025-1AC24-0AA1-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=3RT1025-1AC24-0AA1-Z W97&lang=en



**last modified:** 10/17/2016