

CONTACTOR,AC-3,4KW/400V,1NO, 24V DC, 3-POLE, SIZE S00,  
CAGE CLAMP TERMINAL MULTI-UNIT PACK 1 PACK = 42 UNITS

product brand name	SIRIUS
Product designation	power contactor

### General technical data

Size of contactor	S00
Degree of pollution	3
Protection class IP	
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP20
<ul style="list-style-type: none"> <li>• of the terminal</li> </ul>	IP20
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> <li>• of contactor typical</li> </ul>	30 000 000
<ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul style="list-style-type: none"> <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	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-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	
<ul style="list-style-type: none"> <li>• at AC-1 at 400 V           <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C rated value</li> </ul> </li> </ul>	22 A
<ul style="list-style-type: none"> <li>• at AC-1           <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>	22 A 20 A
<ul style="list-style-type: none"> <li>• at AC-3           <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>	9 A
Operating current	
<ul style="list-style-type: none"> <li>• at 1 current path at DC-1           <ul style="list-style-type: none"> <li>— at 24 V rated value</li> </ul> </li> </ul>	20 A

<ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>	2.1 A
<ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-1           <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> </ul> </li> </ul>	20 A 12 A
<ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1           <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> </ul> </li> </ul>	20 A 20 A
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at 1 current path at DC-3 at DC-5           <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> </ul> </li> </ul>	20 A 0.15 A
<ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-3 at DC-5           <ul style="list-style-type: none"> <li>— at 110 V rated value</li> <li>— at 24 V rated value</li> </ul> </li> </ul>	0.35 A 20 A
<ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-3 at DC-5           <ul style="list-style-type: none"> <li>— at 110 V rated value</li> <li>— at 24 V rated value</li> </ul> </li> </ul>	20 A 20 A
<b>Operating power</b>	
<ul style="list-style-type: none"> <li>• at AC-1           <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>	13 kW
<ul style="list-style-type: none"> <li>• at AC-2 at 400 V rated value</li> </ul>	4 kW
<ul style="list-style-type: none"> <li>• at AC-3           <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul>	4 kW 4.5 kW 5.5 kW
<b>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</b>	0.7 W

#### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	DC
<b>Control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 V
<b>Operating range factor control supply voltage rated value of magnet coil at DC</b>	0.85 ... 1.1
<b>Closing power of magnet coil at DC</b>	3.3 W
<b>Holding power of magnet coil at DC</b>	3.3 W

#### Auxiliary circuit

<b>Number of NC contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts           <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul> </li> </ul>	0
<b>Number of NO contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	

— instantaneous contact	1
Operating current at AC-12 maximum	10 A
<b>Operating current at AC-15</b>	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
<b>Operating current at DC-12</b>	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
<b>Operating current at DC-13</b>	
• 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
<b>Contact reliability of auxiliary contacts</b>	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	fuse gL/gG: 35 A
— with type of assignment 2 required	fuse gL/gG: 20 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

### Installation/ mounting/ dimensions

#### Mounting type

- Side-by-side mounting

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

Yes

#### Height

60 mm

#### Width

45 mm

#### Depth

73 mm

#### Required spacing

- for grounded parts
  - at the side

6 mm

### Connections/Terminals

#### Type of electrical connection

- for main current circuit
- for auxiliary and control current circuit

spring-loaded terminals

spring-loaded terminals

#### Type of connectable conductor cross-sections

- for main contacts
  - solid
  - single or multi-stranded
  - finely stranded with core end processing

2x (0.25 ... 2.5 mm<sup>2</sup>)

2x (0,25 ... 2,5 mm<sup>2</sup>)

2x (0.25 ... 1.5 mm<sup>2</sup>)

— finely stranded without core end processing

2x (0.25 ... 2.5 mm<sup>2</sup>)

- at AWG conductors for main contacts

2x (24 ... 14)

#### Type of connectable conductor cross-sections

- for auxiliary contacts

— solid

2x (0.25 ... 2.5 mm<sup>2</sup>)

— finely stranded with core end processing

2x (0.25 ... 1.5 mm<sup>2</sup>)

— finely stranded without core end processing

2x (0.25 ... 2.5 mm<sup>2</sup>)

- at AWG conductors for auxiliary contacts

2x (24 ... 14)

### Certificates/approvals

#### General Product Approval

#### Functional Safety/Safety of Machinery

#### Declaration of Conformity



[Baumusterprüfbescheinigung](#)



#### Test Certificates

#### Shipping Approval

[spezielle Prüfbescheinigung](#)  
[n](#)

[sonstig](#)



#### Shipping Approval

#### other



[Umweltbestätigung](#)

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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=3RT1016-2BB41-Z W97>

#### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1016-2BB41-Z W97>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1016-2BB41-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=3RT1016-2BB41-Z W97&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1016-2BB41-Z W97&lang=en)

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