



CONTACTOR, AC-3 18.5 KW/400 V, DC 24 V,  
3-POLE, 2 NO + 2 NC, SIZE S2,  
SCREW CONNECTION

### General technical data:

<b>product brand name</b>		SIRIUS
<b>Size of the contactor</b>		S2
<b>Protection class IP / on the front</b>		IP20
<b>Degree of pollution</b>		3
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature / during operating</b>	°C	-25 ... +60
<b>Mechanical operating cycles as operating time</b>		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>		10,000,000
<ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block / typical</li> </ul>		10,000,000
<ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		5,000,000

### Main circuit:

<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-1 / at 400 V <ul style="list-style-type: none"> <li>• at 40 °C ambient temperature / rated value</li> </ul> </li> </ul>	A	60
<ul style="list-style-type: none"> <li>• at 60 °C ambient temperature / rated value</li> </ul>	A	55
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	A	40

• at AC-4 / at 400 V / rated value	A	35
• with 1 current path / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
<b>Service power</b>		
• at AC-2 / at 400 V / rated value	kW	18.5
• at AC-3 / at 400 V / rated value	kW	18.5
• at AC-4 / at 400 V / rated value	W	18,500
<b>Active power loss / per conductor / typical</b>	W	2.6

<b>Control circuit:</b>		
<b>Type of voltage / of the controlled supply voltage</b>		DC
<b>Control supply voltage / 1</b>		
• for DC		
• rated value	V	24
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• for DC		0.8 ... 1.1
<b>Pull-in power / of the solenoid / for DC</b>	W	13.3
<b>Holding power / of the solenoid / for DC</b>	W	13.3

<b>Auxiliary circuit:</b>		
<b>Contact reliability / of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b>		2
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		2

<b>Operating current / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

#### Short-circuit:

##### Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
  - with type of assignment 1 / required
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 125 A

fuse gL/gG: 63 A

#### Installation/mounting/dimensions:

<b>Type of mounting</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<b>series installation</b>		Yes
<b>Width</b>	mm	55
<b>Height</b>	mm	112
<b>Depth</b>	mm	179
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	6

#### Connection type:

##### Design of the electrical connection

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

screw-type terminals

screw-type terminals

#### Certificates/approvals:

**General Product Approval****Functional Safety /  
Safety of  
Machinery**

CCC



CSA



GOST



KETI



UL

[Type Examination](#)**Declaration of  
Conformity****Test Certificates**

EG-Konf.

[Special Test  
Certificate](#)[Type Test  
Certificates/Test  
Report](#)**Shipping Approval**

ABS

BUREAU  
VERITAS

DNV



GL



LRS

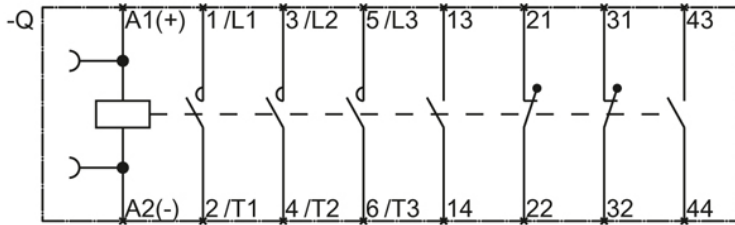


RINA

**Shipping Approval****other**

RMRS

[Confirmation](#)[other](#)[Environmental  
Confirmations](#)**Further information:****Information- and Downloadcenter (Catalogs, Brochures,...)**<http://www.siemens.com/industrial-controls/catalogs>**Industry Mall (Online ordering system)**<http://www.siemens.com/industrial-controls/mall>**Cax online generator:**<http://www.siemens.com/cax>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3RT1035-1BB44-3MA0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1035-1BB44-3MA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1035-1BB44-3MA0)



last change:

Jun 28, 2012