



CONTACTOR, AC-3 18.5 KW,400V, DC 125 V,  
4-POLE, 2 NO + 2 NC, SIZE S2,  
SCREW CONNECTION AVAILABLE MARCH '98

General technical data:		
product brand name		SIRIUS
Size of the contactor		S2
Protection class IP / on the front		IP00
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Insulation voltage / rated value	V	690
Mechanical operating cycles as operating time		
• of the contactor / typical		10,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		2
Number of NO contacts / for main contacts		2
Operational current / at AC-1 / up to 690 V		

• at 40 °C ambient temperature / rated value	A	60
• at 60 °C ambient temperature / rated value	A	55
<b>Operating current / at AC-2 / at AC-3</b>		
• at 400 V		
• per NO contact / rated value	A	40
• per NC contact / rated value	A	40
<b>Operating current</b>		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	50
• at 110 V / rated value	A	4.5
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.4
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	50
• at 110 V / rated value	A	45
• at 220 V / rated value	A	5
• at 440 V / rated value	A	1
<b>Operating current</b>		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	35
• per NC contact / rated value	A	35
• at 110 V		
• per NO contact / rated value	A	2.5
• per NC contact / rated value	A	1.25
• at 220 V		
• per NO contact / rated value	A	1
• per NC contact / rated value	A	0.5
• at 440 V		
• per NO contact / rated value	A	0.1
• per NC contact / rated value	A	0.05
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	50
• per NC contact / rated value	A	50
• at 110 V		
• per NO contact / rated value	A	25
• per NC contact / rated value	A	12.5
• at 220 V		
• per NO contact / rated value	A	5

<ul style="list-style-type: none"> <li>• per NC contact / rated value</li> </ul>	A	2.5
<ul style="list-style-type: none"> <li>• at 440 V</li> </ul>		
<ul style="list-style-type: none"> <li>• per NO contact / rated value</li> </ul>	A	0.27
<ul style="list-style-type: none"> <li>• per NC contact / rated value</li> </ul>	A	0.135
<b>Operating performance</b>		
<ul style="list-style-type: none"> <li>• at AC-1</li> </ul>		
<ul style="list-style-type: none"> <li>• at 230 V / rated value</li> </ul>	kW	20
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	36
<ul style="list-style-type: none"> <li>• at AC-2 / at AC-3</li> </ul>		
<ul style="list-style-type: none"> <li>• at 230 V</li> </ul>		
<ul style="list-style-type: none"> <li>• per NO contact / rated value</li> </ul>	kW	9.5
<ul style="list-style-type: none"> <li>• per NC contact / rated value</li> </ul>	kW	9.5
<ul style="list-style-type: none"> <li>• at 400 V</li> </ul>		
<ul style="list-style-type: none"> <li>• per NO contact / rated value</li> </ul>	kW	18.5
<ul style="list-style-type: none"> <li>• per NC contact / rated value</li> </ul>	kW	18.5
<b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b>	W	2.6
<b>Frequency of operation</b>		
<ul style="list-style-type: none"> <li>• with AC-1 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at AC-2 / at AC-3 / maximum</li> </ul>	1/h	750

#### Control circuit/ Control:

<b>Voltage type / of control feed voltage</b>		DC
<b>Control supply voltage</b>		
<ul style="list-style-type: none"> <li>• for DC / rated value</li> </ul>	V	125
<b>operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		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>Closing delay</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	ms	4 ... 35
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	ms	50 ... 110
<b>Opening delay</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	ms	10 ... 30
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	ms	15 ... 30
<b>Arcing time</b>	ms	10 ... 15
<b>Residual current / of electronics / for control with signal &lt;0&gt;</b>		
<ul style="list-style-type: none"> <li>• at 24 V / with DC / maximum permissible</li> </ul>	A	0.038

#### Auxiliary circuit:

<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>		0
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		0
<b>Operating current</b>		
• at AC-12 / maximum	A	10
• at AC-15 / at 230 V / rated value	A	6
• at AC-15 / at 400 V / rated value	A	3
<b>Operating current / at DC-12</b>		
• at 60 V / rated value	A	6
• at 110 V / rated value	A	3
• at 220 V / rated value	A	1
<b>Operating current / at DC-13</b>		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	2
• at 110 V / rated value	A	1
• at 220 V / rated value	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: 160 A

fuse gL/gG: 80 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

##### Mounting type / series installation

Yes

##### Width

mm 73

##### Height

mm 112

##### Depth

mm 130

#### Connections/ terminals:

##### Design of the electrical connection

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

screw-type terminals

screw-type terminals

##### Type of the connectable conductor cross-section

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
    - without conductor final cutting
  - stranded
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (0.75 ... 16 mm<sup>2</sup>)

2x (0.75 ... 16 mm<sup>2</sup>)

2x (0.75 ... 16 mm<sup>2</sup>)

2x (0.75 ... 25 mm<sup>2</sup>)

2x (18 ... 2)

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14), 1x 12

### Certificates/ approvals:

#### General Product Approval

#### Functional Safety / Safety of Machinery

#### Declaration of Conformity



[Type Examination](#)



#### Test Certificates

#### Shipping Approval

[Special Test Certificate](#)



#### other

[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/industrymall>

#### Cax online generator

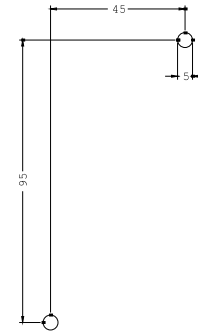
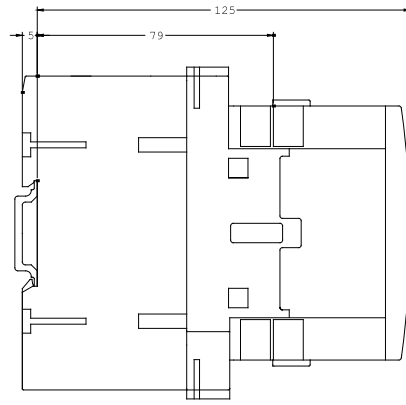
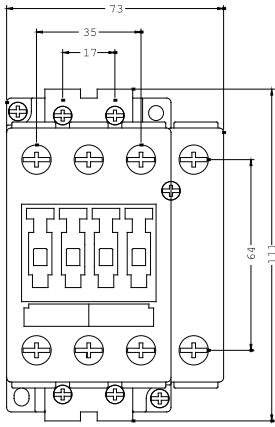
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1535-1BG40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1535-1BG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1535-1BG40)



last change:

Aug 4, 2014