



4NO CONTACTOR,  
AC1: 40A AC 24V 50/60HZ 4-POLE, 4NO,  
SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

General technical data:		
product brand name		SIRIUS
Size of the contactor		S0
Product extension		Yes No
<ul style="list-style-type: none"> <li>• auxiliary switch</li> <li>• function module for communication</li> </ul>		
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
<ul style="list-style-type: none"> <li>• during storage</li> <li>• during operating</li> </ul>	°C	-55 ... +80 -25 ... +60
Shock resistance		
<ul style="list-style-type: none"> <li>• at rectangular impulse</li> <li>• at AC</li> <li>• at sine pulse</li> <li>• at AC</li> </ul>		8,3g / 5 ms, 5,3g / 10 ms 13,5g / 5 ms, 8,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

<b>Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1</b>	V	400
<b>Mechanical operating cycles as operating time</b>		
• 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
<b>Main circuit:</b>		
<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		4
<b>Connectable conductor cross-section / in main circuit</b>		
• at AC-1		
• at 40 °C / minimum permissible	mm <sup>2</sup>	10
• at 60 °C / minimum permissible	mm <sup>2</sup>	10
<b>Operating current</b>		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	A	40
• at 60 °C ambient temperature / rated value	A	35
• at AC-2 / at 400 V / rated value	A	17
• at AC-3		
• at 400 V / rated value	A	15.5
• at AC-4 / at 400 V / rated value	A	15.5
<b>Operating current</b>		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	35
• 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	35
• at 110 V / rated value	A	35
• at 220 V / rated value	A	1
• at 440 V / rated value	A	1
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
• at 220 V / rated value	A	35
• at 440 V / rated value	A	2.9
<b>Operating current</b>		
• with 1 current path / at DC-3 / at DC-5		

<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	2.5
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.09
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	35
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	15
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.27
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	35
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	35
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.6
<b>Operating performance</b>		
<ul style="list-style-type: none"> <li>• at AC-1 / at 230 V / rated value</li> </ul>	kW	23
<ul style="list-style-type: none"> <li>• at AC-1 / at 400 V / rated value</li> </ul>	kW	23
<ul style="list-style-type: none"> <li>• at AC-2</li> </ul>		
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	9
<ul style="list-style-type: none"> <li>• at AC-3</li> </ul>		
<ul style="list-style-type: none"> <li>• at 230 V / rated value</li> </ul>	kW	4
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	7.5
<ul style="list-style-type: none"> <li>• at AC-4</li> </ul>		
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	7.5
<b>Thermal short-time current / restricted to 10 s</b>		
	A	200
<b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b>		
	W	1.6
<b>Off-load operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	1/h	5,000
<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>• with AC-2 / maximum</li> </ul>	1/h	750
<ul style="list-style-type: none"> <li>• with AC-3 / maximum</li> </ul>	1/h	750
<ul style="list-style-type: none"> <li>• with AC-4 / maximum</li> </ul>	1/h	250
<b>Control circuit/ Control:</b>		
<b>Voltage type / of control feed voltage</b>		AC
<b>Control supply voltage</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / at AC / rated value</li> </ul>	V	24
<ul style="list-style-type: none"> <li>• at 60 Hz / at AC / rated value</li> </ul>	V	24

<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• at 50 Hz / for AC		0.8 ... 1.1
• at 60 Hz / for AC		0.85 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	81
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	10.5
<b>Closing delay</b>		
• at AC	ms	8 ... 40
<b>Opening delay</b>		
• at AC	ms	4 ... 16
<b>Arcing time</b>	ms	10 ... 10

#### 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>		1
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		1
<b>Operating current</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / rated value	A	10
• at 400 V / rated value	A	3
• at 500 V / rated value	A	2
• at 690 V / rated value	A	1
<b>Operating current / at DC-12</b>		
• at 24 V / rated value	A	10
• at 48 V / rated value	A	6
• at 60 V / rated value	A	6
• at 110 V / rated value	A	3
• at 125 V / rated value	A	2
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.3
• at 600 V / rated value	A	0.15
<b>Operating current / at DC-13</b>		
• at 24 V / rated value	A	10
• at 48 V / rated value	A	2
• at 60 V / rated value	A	2
• at 110 V / rated value	A	1
• at 125 V / rated value	A	0.9
• at 220 V / rated value	A	0.3

- at 440 V / rated value
- at 600 V / rated value

A	0.14
A	0.1

#### UL/CSA ratings:

##### yielded mechanical performance [hp]

- for single-phase squirrel cage motors
  - at 110/120 V / rated value
  - at 230 V / rated value
- for three-phase squirrel cage motors
  - at 200/208 V / rated value
  - at 220/230 V / rated value
  - at 460/480 V / rated value
  - at 575/600 V / rated value

hp	1
hp	3
hp	3
hp	5
hp	10
hp	15

##### Full-load current (FLA) / for 3-phase motor

- at 480 V / rated value
- at 600 V / rated value

A	14
A	17

##### Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

#### 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  
  
gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A  
  
gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25A

#### Installation/ mounting/ dimensions:

##### mounting position

+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface

##### 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 61

##### Height

mm 85

##### Depth

mm 97

##### Distance, to be maintained, to the ranks assembly / sideways

mm 0

#### Connections/ terminals:

##### Design of the electrical connection

- for main current circuit

screw-type terminals

- for auxiliary and control current circuit
- for main contacts / finely stranded / with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts / finely stranded / with conductor end processing
- for AWG conductors / for auxiliary contacts

screw-type terminals  
 2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>), 1x 10 mm<sup>2</sup>  
 2x (16 ... 12), 2x (14 ... 8)  
 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)  
 2x (20 ... 16), 2x (18 ... 14)

### Safety related data:

#### B10 value / with high demand rate

- according to SN 31920

1,000,000

#### T1 value / for proof test interval or service life

- according to IEC 61508

a

20

#### Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

%

40

%

73

#### Failure rate [FIT] / with low demand rate

- according to SN 31920

FIT

100

#### Product function

- mirror contact to IEC 60947-4-1
- positively driven operation to IEC 60947-5-1

Yes

No

### Certificates/ approvals:

#### General Product Approval

#### EMC

#### Functional Safety / Safety of Machinery



CCC



CSA



UL



C-TICK

[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



PRS

#### Shipping Approval

#### other



RINA



RMRS

[Confirmation](#)



VDE

[Environmental Confirmations](#)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://mall.industry.siemens.com/>

Cax online generator

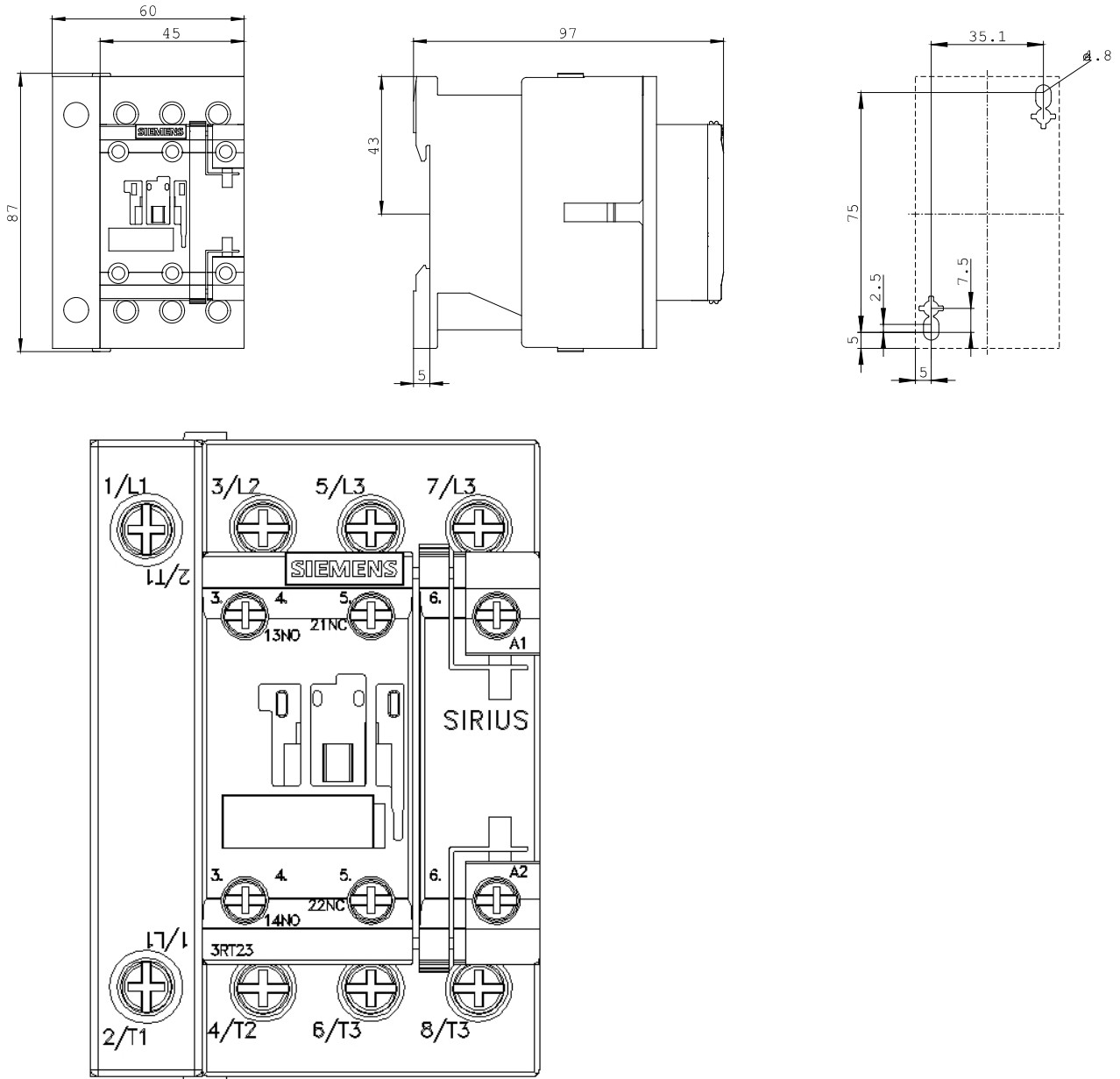
<http://www.siemens.com/cax>

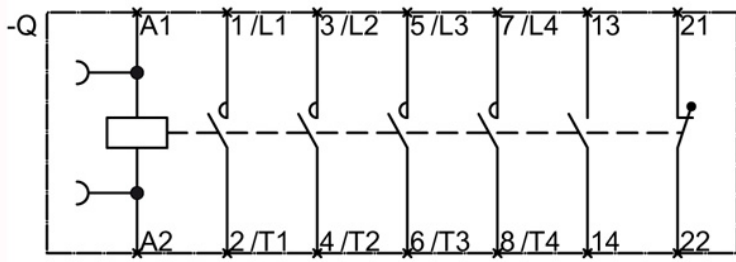
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2326-1AC20/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT2326-1AC20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2326-1AC20)





last change:

Aug 4, 2014