



2NO+2NC CONTACTOR,  
 AC3: 5.5KW DC 220V 50HZ,  
 240V 60HZ 4-POLE, 2NO+2NC, SZ: S00,  
 SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Product extension / auxiliary switch		Yes
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
<b>Ambient temperature</b>		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
<b>Shock resistance</b>		
• at rectangular impulse		
• at AC		7,3g / 5 ms, 4,7g / 10 ms
• at sine pulse		
• at AC		11,4g / 5 ms, 7,3g / 10 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Insulation voltage / rated value</b>	V	690
<b>Mechanical operating cycles as operating time</b>		
• of the contactor / typical		30,000,000

- of the contactor with added auxiliary switch block / typical
- of the contactor with added electronics-compatible auxiliary switch block / typical

10,000,000

5,000,000

**Main circuit:**

<b>Number of NC contacts / for main contacts</b>		2
<b>Number of NO contacts / for main contacts</b>		2
<b>Operating current</b>		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	22
• at 60 °C ambient temperature / rated value	A	20
• at AC-2 / at 400 V / rated value	A	12
• at AC-3 / at 400 V / rated value	A	9
• at AC-4 / at 400 V / rated value	A	8.5
<b>Operating current</b>		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.1
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	12
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	0.1
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	0.35
<b>Service power</b>		
• at AC-2 / at 400 V / rated value	kW	5.5
• at AC-3 / at 400 V / rated value	kW	4
• at AC-4 / at 400 V / rated value	kW	4
<b>Active power loss / per conductor / typical</b>	W	1.2
<b>Off-load operating frequency</b>		
• at AC	1/h	10,000
• at DC	1/h	10,000
<b>Frequency of operation / at AC-1 / according to IEC 60947-6-2</b>	1/h	1,000
<b>Frequency of operation / at AC-2 / according to IEC 60947-6-2</b>	1/h	750
<b>Frequency of operation / at AC-3 / according to IEC 60947-6-2</b>	1/h	750
<b>Frequency of operation / at AC-4 / according to IEC 60947-6-2</b>	1/h	250

**Control circuit:**

<b>Type of voltage / of the controlled supply voltage</b>		AC
<b>Control supply voltage / 1</b>		
• at 50 Hz / for AC / rated value	V	220
• at 60 Hz / for AC / rated value	V	240
<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	43
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	6.5
<b>Inductive power factor</b>		
• with the pull-in power of the coil		0.8
• with the pull-in power of the coil		0.25
<b>Closing delay</b>		
• at AC	ms	8 ... 33
<b>Opening delay</b>		
• at AC	ms	4 ... 15
<b>Arcing time</b>	ms	10 ... 15

#### 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 / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	10
• at 400 V	A	3
• at DC-12		
• at 48 V	A	6
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 48 V	A	2
• 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

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A

**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

**Type of mounting**

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

**Type of fixing/fixation / series installation**

Yes

**Width**

mm 45

**Height**

mm 57.5

**Depth**

mm 73

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

mm 0

**Distance, to be maintained, to earthed part / sideways**

mm 6

**Connections:****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
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts














2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), 2x 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), 2x 12

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

**Certificates/approvals:**

General Product Approval				Declaration of Conformity	Test Certificates
 CCC	 CSA	 GOST	 UL	 EG-Konf.	<a href="#">Special Test Certificate</a>
Shipping Approval					
 ABS	 DNV	 GL	 LRS	 PRS	 RINA
Shipping Approval	other				
 RMRS	<a href="#">Confirmation</a>				 VDE

UL/CSA ratings:		
<b>yielded mechanical performance (hp)</b>		
<ul style="list-style-type: none"> <li>for single-phase squirrel cage motors               <ul style="list-style-type: none"> <li>at 110/120 V / rated value</li> <li>at 230 V / rated value</li> </ul> </li> <li>for three-phase squirrel cage motors               <ul style="list-style-type: none"> <li>at 220/230 V / rated value</li> <li>at 460/480 V / rated value</li> </ul> </li> </ul>	hp	0.5
	hp	2
	hp	3
	hp	7.5
<b>Operating current (FLA) / for three-phase squirrel cage motors</b>		
<ul style="list-style-type: none"> <li>at 480 V / rated value</li> </ul>	A	11
<b>Contact rating designation / for auxiliary contacts / according to UL</b>		A600 / Q600

Sicherheitsrelevante Kenngrößen:		
<b>B10 value / with high demand rate</b>		
<ul style="list-style-type: none"> <li>according to SN 31920</li> </ul>		1,000,000
<b>T1 value / for proof test interval or service life</b>		
<ul style="list-style-type: none"> <li>according to IEC 61508</li> </ul>	a	20
<b>Proportion of dangerous failures</b>		
<ul style="list-style-type: none"> <li>with low demand rate / according to SN 31920</li> <li>with high demand rate / according to SN 31920</li> </ul>	%	40
	%	73
<b>Failure rate (FIT value) / with low demand rate</b>		
<ul style="list-style-type: none"> <li>according to SN 31920</li> </ul>	FIT	100
<b>Product function</b>		
<ul style="list-style-type: none"> <li>mirror contact to IEC 60947-4-1               <ul style="list-style-type: none"> <li>comment</li> </ul> </li> <li>positively driven operation to IEC 60947-5-1</li> </ul>		Yes with 3RH29 No

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:

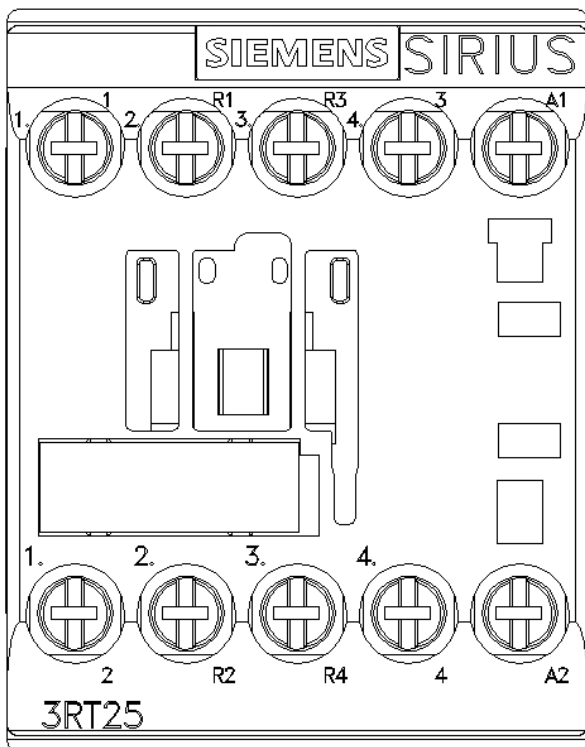
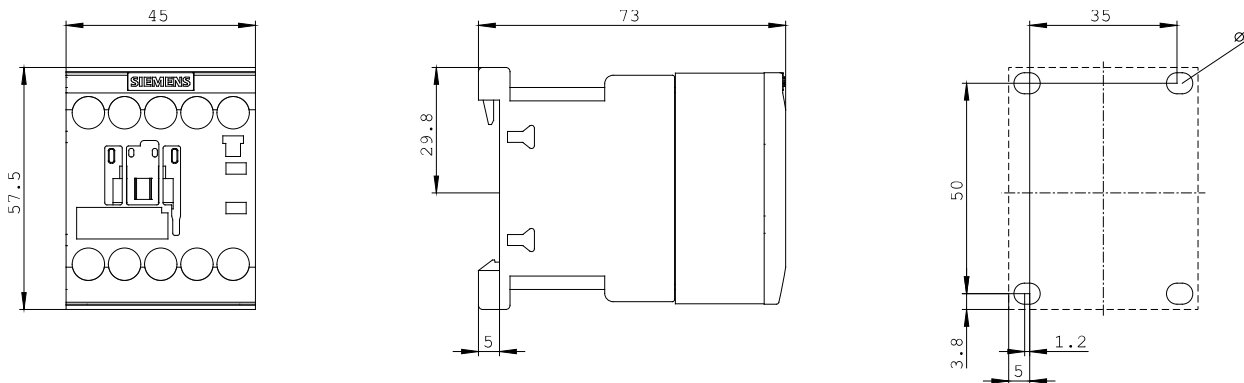
<http://www.siemens.com/cax>

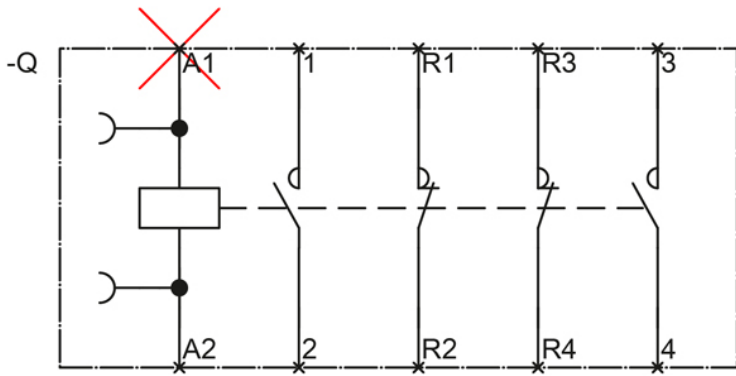
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2517-1AP60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT2517-1AP60](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2517-1AP60)





last change:

Jul 26, 2012