



CONTACTOR, AC-3, 15KW/400V, 1NO+1NC,  
AC 230V 50/60HZ, 3-POLE,  
SZ S0 SCREW TERMINAL

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### General technical data:

product brand name	SIRIUS	
Size of the contactor	S0	
Product extension	<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
	°C	-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>		3
<b>Connectable conductor cross-section / in main circuit</b>		
• at AC-1		
• at 40 °C / minimum permissible	m <sup>2</sup>	10
• at 60 °C / minimum permissible	m <sup>2</sup>	10
<b>Operating current</b>		
• at AC-2		
• at 400 V / rated value	A	32
• at AC-3		
• at 400 V / rated value	A	32
• at 500 V / rated value	A	32
• at 690 V / rated value	A	21
• at AC-4		
• at 400 V / rated value	A	22
<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
• at 600 V / rated value	A	0.25
• 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	5
• at 440 V / rated value	A	1
• at 600 V / rated value	A	0.8
• 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
• at 600 V / rated value	A	1.4
<b>Operating current</b>		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.5
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.09
• at 600 V / rated value	A	0.06
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	15
• at 220 V / rated value	A	3
• at 440 V / rated value	A	0.27
• at 600 V / rated value	A	0.16
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
• at 220 V / rated value	A	10
• at 440 V / rated value	A	0.6
• at 600 V / rated value	A	0.6
<b>Service power</b>		
• at AC-1		
• at 230 V / rated value	kW	16
• at 400 V / rated value	kW	28
• at 690 V / rated value	kW	48
• at AC-2		
• at 400 V / rated value	kW	15
• at AC-3		
• at 230 V / rated value	kW	7.5
• at 400 V / rated value	kW	15
• at 690 V / rated value	kW	18.5
• at AC-4		
• at 400 V / rated value	kW	11
<b>Thermal short-time current / restricted to 10 s</b>		
	A	260
<b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b>		
	W	2.7
<b>Off-load operating frequency</b>		
• at AC	1/h	5,000
<b>Frequency of operation</b>		

- at AC-1 / according to IEC 60947-6-2
- at AC-2 / according to IEC 60947-6-2
- at AC-3 / according to IEC 60947-6-2
- at AC-4 / according to IEC 60947-6-2

1/h	1,000
1/h	750
1/h	750
1/h	250

#### Control circuit:

<b>Type of voltage / of the controlled supply voltage</b>		AC
<b>Control supply voltage</b>		
• at 50 Hz / at AC / rated value	V	230
• at 60 Hz / at AC / rated value	V	230
<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>Inductive power factor</b>		
• with the pull-in power of the coil		0.82
• with the pull-in power of the coil		0.25
<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
<b>Residual current / of electronics / for control with signal &lt;0&gt;</b>		
• at 230 V / with AC / maximum permissible	mA	7
• at 24 V / with DC / maximum permissible	mA	16

#### 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	A	0.14
• at 600 V / rated value	A	0.1

#### UL/CSA ratings:

<b>yielded mechanical performance (hp)</b>		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	2
• at 230 V / rated value	hp	5
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	10
• at 220/230 V / rated value	hp	10
• at 460/480 V / rated value	hp	20
• at 575/600 V / rated value	hp	25

<b>Operating current (FLA) / for three-phase squirrel cage motors</b>		
• at 480 V / rated value	A	27
• at 600 V / rated value	A	27

<b>Contact rating designation / for auxiliary contacts / according to UL</b>	A600 / Q600
--	-------------

#### Short-circuit:

<b>Design of the fuse link</b>		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A

- at type of coordination 2 / required

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

#### Installation/mounting/dimensions:

<b>mounting position</b>		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>Type of mounting</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<b>Type of fixing/fixation / series installation</b>		Yes
<b>Width</b>	mm	45
<b>Height</b>	mm	85
<b>Depth</b>	mm	97
<b>Distance, to be maintained, to the ranks assembly / sideways</b>	mm	0

#### Connections:

<b>Design of the electrical connection</b>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		<p>screw-type terminals</p> <p>screw-type terminals</p>
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>		<p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²</p> <p>2x (16 ... 12), 2x (14 ... 8)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14)</p>

#### 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</li> <li>• comment</li> </ul>		<p>Yes</p> <p>with 3RH29</p>

- positively driven operation to IEC 60947-5-1

No

#### Certificates/approvals:

##### General Product Approval

##### EMC

##### Functional Safety / Safety of Machinery



CCC



CSA



GOST



UL



C-TICK

[Type Examination](#)

##### Declaration of Conformity

##### Test Certificates



EG-Konf.

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)

##### Shipping Approval



ABS



DNV



GL



LRS



PRS

##### Shipping Approval

##### other



RINA



RMRS

[Confirmation](#)



VDE

#### 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

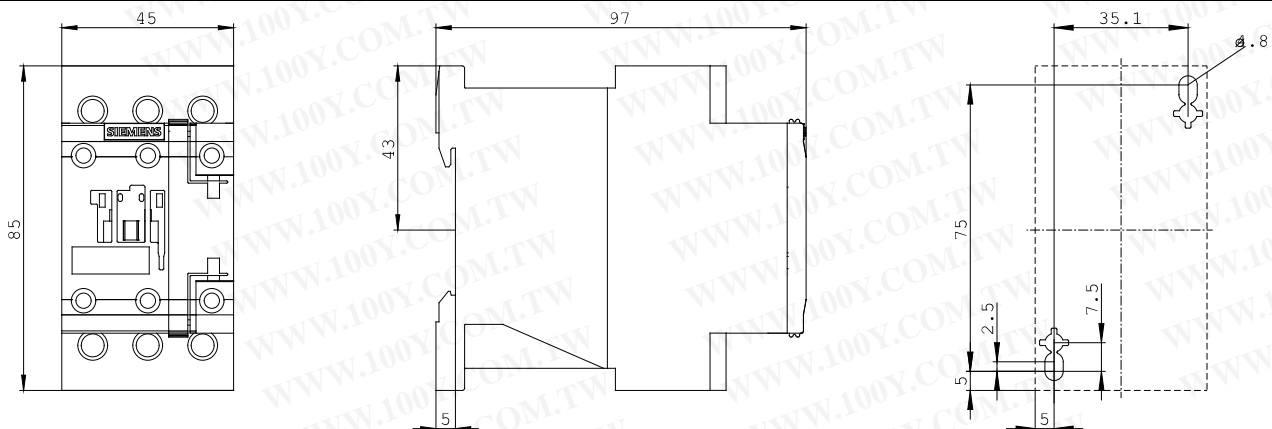
<http://www.siemens.com/cax>

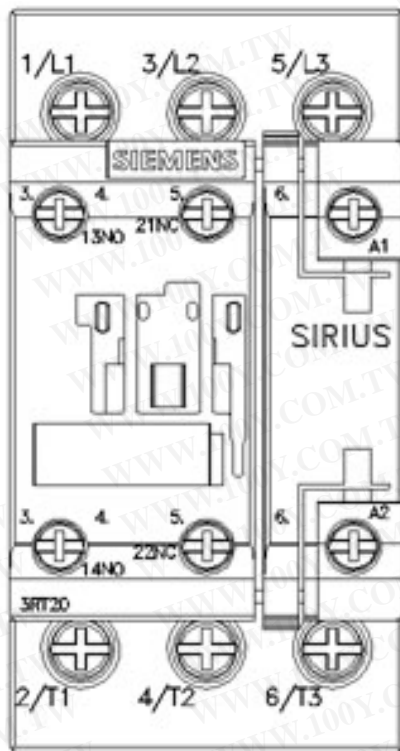
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/VW/view/en/3RT2027-1AL20/all>

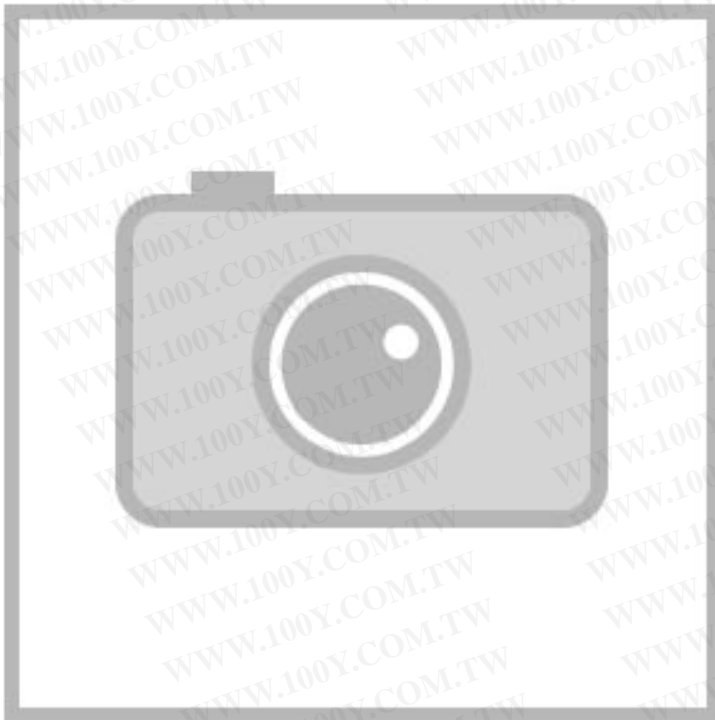
##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT2027-1AL20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2027-1AL20)





勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



last change:

Sep 30, 2013