



CONTACTOR,AC3:30KW/400V,  
1NO+1NC,100VAC50HZ/100.110V60HZ 3-POLE, SIZE  
S2, SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor

**General technical data:**

<b>Insulation voltage</b>		
• Rated value	V	690
<b>Degree of pollution</b>		3
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
• of the contactor typical		10 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical		5 000 000
• of the contactor with added auxiliary switch block typical		10 000 000
<b>Thermal short-time current restricted to 10 s</b>	A	520
<b>Protection class IP</b>		
• on the front		IP20
• of the terminal		IP00
<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

**Main circuit:**

<b>Number of poles for main current circuit</b>		3
<b>Number of NC contacts for main contacts</b>		0
<b>Number of NO contacts for main contacts</b>		3
<b>Operating voltage</b>		

• at AC-3 Rated value maximum	V	690
<b>Operating current</b>		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	80
— up to 690 V at ambient temperature 40 °C Rated value	A	80
— up to 690 V at ambient temperature 60 °C Rated value	A	70
• at AC-2 at 400 V Rated value	A	65
• at AC-3		
— at 400 V Rated value	A	65
— at 500 V Rated value	A	65
— at 690 V Rated value	A	47
• at AC-4 at 400 V Rated value	A	55
<b>Operating current with 1 current path</b>		
• at DC-1		
— at 24 V Rated value	A	70
— at 110 V Rated value	A	4.5
— at 220 V Rated value	A	2
— at 440 V Rated value	A	0.4
— at 600 V Rated value	A	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	A	35
— at 110 V Rated value	A	2.5
— at 220 V Rated value	A	2
— at 440 V Rated value	A	0.1
— at 600 V Rated value	A	0.06
<b>Operating current with 2 current paths in series</b>		
• at DC-1		
— at 24 V Rated value	A	70
— at 110 V Rated value	A	45
— at 220 V Rated value	A	5
— at 440 V Rated value	A	1
— at 600 V Rated value	A	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	A	25
— at 220 V Rated value	A	5
— at 24 V Rated value	A	55
— at 440 V Rated value	A	0.27
— at 600 V Rated value	A	0.16
<b>Operating current with 3 current paths in series</b>		

<ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> </ul> </li> <li>• at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> </ul> </li> </ul>	A	55
	A	45
	A	45
	A	2.9
	A	1.4
	A	45
	A	25
	A	55
	A	0.6
	A	0.6
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-1 at 400 V Rated value</li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-4 at 400 V Rated value</li> </ul>	kW	53
	kW	30
	kW	30
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 230 V at 60 °C Rated value</li> <li>— at 230 V Rated value</li> <li>— at 400 V at 60 °C Rated value</li> <li>— at 690 V at 60 °C Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V Rated value</li> <li>— at 400 V Rated value</li> <li>— at 500 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> </ul>	kW	26
	kW	30
	kW	46
	kW	79
	kW	91
	kW	18.5
	kW	30
	kW	37
	kW	37
<b>Operating power for ≥ 200000 operating cycles at AC-4</b>		
<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> <li>• at 690 V Rated value</li> </ul>	kW	14.7
	kW	20
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>	1/h	700
<b>Control circuit/ Control:</b>		
<b>Type of voltage of the control supply voltage</b>		AC
<b>Control supply voltage with AC</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz Rated value</li> <li>• at 60 Hz Rated value</li> </ul>	V	100
	V	100 ... 110
<b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>		

- at 50 Hz
- at 60 Hz

0.8 ... 1.1

0.85 ... 1.1

#### Auxiliary circuit:

<b>Number of NC contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul> </li> </ul>		1
<b>Number of NO contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul> </li> </ul>		1
<b>Product expansion Auxiliary switch</b>		Yes
<b>Operating current at AC-15</b>		
<ul style="list-style-type: none"> <li>• at 230 V Rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 690 V Rated value</li> </ul>	A	1
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at DC-12 at 125 V Rated value</li> </ul>	A	2
<ul style="list-style-type: none"> <li>• at DC-12 at 220 V Rated value</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at DC-12 at 600 V Rated value</li> </ul>	A	0.15
<ul style="list-style-type: none"> <li>• at DC-13 at 125 V Rated value</li> </ul>	A	0.9
<ul style="list-style-type: none"> <li>• at DC-13 at 220 V Rated value</li> </ul>	A	0.3
<ul style="list-style-type: none"> <li>• at DC-13 at 600 V Rated value</li> </ul>	A	0.1
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at DC-12 <ul style="list-style-type: none"> <li>— at 60 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul>	A	6
	A	3
<ul style="list-style-type: none"> <li>• at DC-13 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 60 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul>	A	10
	A	2
	A	1
<b>Contact reliability of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)

#### UL/CSA ratings:

<b>Full-load current (FLA) for three-phase AC motor</b>		
<ul style="list-style-type: none"> <li>• at 480 V Rated value</li> </ul>	A	65
<ul style="list-style-type: none"> <li>• at 600 V Rated value</li> </ul>	A	52
<b>yielded mechanical performance [hp]</b>		
<ul style="list-style-type: none"> <li>• for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	5
<ul style="list-style-type: none"> <li>• for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	10
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	20



— at the side

mm 6

### Connections/ Terminals:

<b>Type of electrical connection</b>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
<b>Type of connectable conductor cross-section</b>		
• for main contacts		2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )
— single or multi-stranded		2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )
— finely stranded with core end processing		2x (18 ... 2), 1x (18 ... 1)
• for AWG conductors for main contacts		
• for auxiliary contacts		2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )
— single or multi-stranded		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
— finely stranded with core end processing		2x (20 ... 16), 2x (18 ... 14)
• for AWG conductors for auxiliary contacts		
<b>Apparent pick-up power of the magnet coil with AC</b>		
• at 50 Hz	V·A	212
• at 60 Hz	V·A	188

### Safety related data:

<b>Proportion of dangerous failures</b>		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
<b>Product function Mirror contact acc. to IEC 60947-4-1</b>		
		Yes
<b>Protection against electrical shock</b>		
		finger-safe when touched vertically from front acc. to IEC 60529

### Mechanical data:

<b>Size of contactor</b>		S2
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### Ambient conditions:

<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>Ambient temperature</b>		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80

### Certificates/ approvals:

General Product Approval

other



[Confirmation](#)

[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**

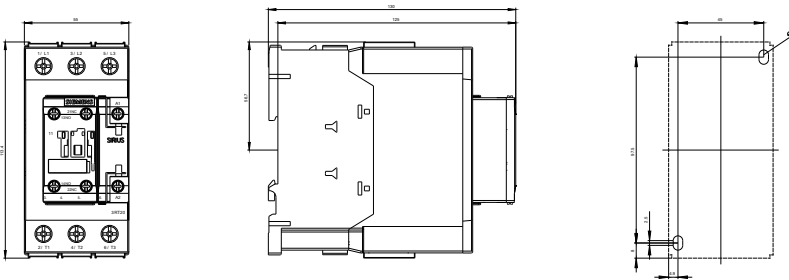
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT20371AG60>

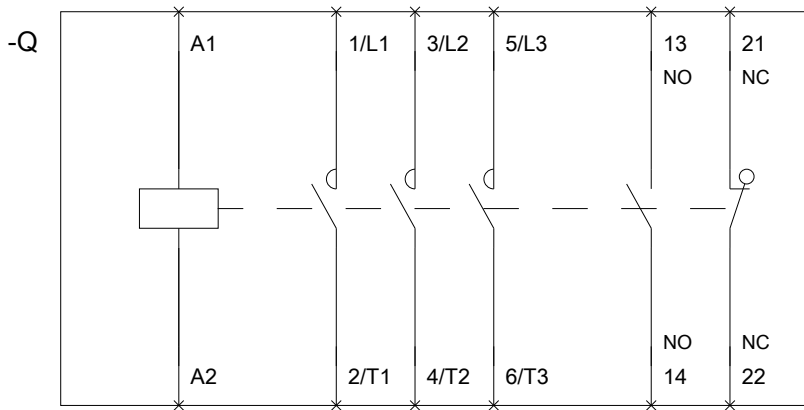
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RT20371AG60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RT20371AG60&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT20371AG60&lang=en)





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