



4NO CONTACTOR,AC1:60A 110V AC 50HZ, 4-POLE,  
4NO, SIZE S2, SCREW TERMINAL 1NO+1NC  
INTEGRATED

Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor

### General technical data:

<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	V	690
<b>Degree of pollution</b>		3
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
<ul style="list-style-type: none"> <li>of the contactor typical</li> </ul>		10 000 000
<ul style="list-style-type: none"> <li>of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul>		5 000 000
<ul style="list-style-type: none"> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>on the front</li> </ul>		IP20
<ul style="list-style-type: none"> <li>of the terminal</li> </ul>		IP00
<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> </ul>		Q
<ul style="list-style-type: none"> <li>acc. to DIN EN 81346-2</li> </ul>		Q

### Main circuit:

<b>Number of poles for main current circuit</b>		4
<b>Number of NC contacts for main contacts</b>		0
<b>Number of NO contacts for main contacts</b>		4
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>at AC-3 Rated value maximum</li> </ul>	V	690

<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 400 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 60 °C Rated value</li> </ul> </li> </ul>	A	60
	A	60
	A	55
<b>Operating current with 1 current path</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> </ul> </li> <li>• at DC-3 at DC-5 <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> </ul> </li> </ul>	A	55
	A	4.5
	A	1
	A	0.4
	A	20
	A	2.5
	A	1
	A	0.1
<b>Operating current with 2 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> </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> </ul> </li> </ul>	A	55
	A	45
	A	5
	A	1
	A	25
	A	5
	A	55
	A	0.27
<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> </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> </ul> </li> </ul>	A	55
	A	45
	A	45
	A	2.9
	A	45
	A	25
	A	55
	A	0.6
<b>Operating power</b>		

<ul style="list-style-type: none"> <li>• at AC-1 at 400 V Rated value</li> </ul>	kW	39
<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> </ul>	kW	21
	kW	23
	kW	36
	kW	62
	kW	68
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>	1/h	500

<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> </ul>	V	110
<b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>		0.8 ... 1.1

<b>Auxiliary circuit:</b>		
<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> <li>• at 400 V Rated value</li> <li>• at 690 V Rated value</li> </ul>	A	10
	A	3
	A	1
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at DC-12 at 125 V Rated value</li> <li>• at DC-12 at 220 V Rated value</li> <li>• at DC-12 at 600 V Rated value</li> <li>• at DC-13 at 125 V Rated value</li> <li>• at DC-13 at 220 V Rated value</li> <li>• at DC-13 at 600 V Rated value</li> </ul>	A	2
	A	1
	A	0.15
	A	0.9
	A	0.3
	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> <li>• at DC-13</li> </ul>	A	6
	A	3

— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	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>		
• at 600 V Rated value	A	17
<b>yielded mechanical performance [hp]</b>		
• for three-phase AC motor at 200/208 V Rated value	metric hp	5
• for three-phase AC motor at 220/230 V Rated value	metric hp	7.5
• for three-phase AC motor at 575/600 V Rated value	metric hp	15
<b>Contact rating of the auxiliary contacts acc. to UL</b>		A600 / P600

#### Short-circuit:

<b>Design of the fuse link</b>		
• for short-circuit protection of the main circuit		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gL/gG: 10 A
— with type of assignment 1 required		
— with type of assignment 2 required		
• for short-circuit protection of the auxiliary switch required		

#### 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>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
• Side-by-side mounting		Yes
<b>Height</b>	mm	113.4
<b>Width</b>	mm	75
<b>Depth</b>	mm	130
<b>Required spacing</b>		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0

— upwards	mm	50
— at the side	mm	6
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— 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		
— single or multi-stranded		2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )
— finely stranded with core end processing		2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )
• for AWG conductors for main contacts		2x (18 ... 2), 1x (18 ... 1)
• for auxiliary contacts		
— 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 (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
<b>Apparent pick-up power of the magnet coil with AC</b>		
• at 50 Hz	V·A	190

#### 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	-40 ... +70
• during storage	°C	-55 ... +80

#### Certificates/ approvals:



[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

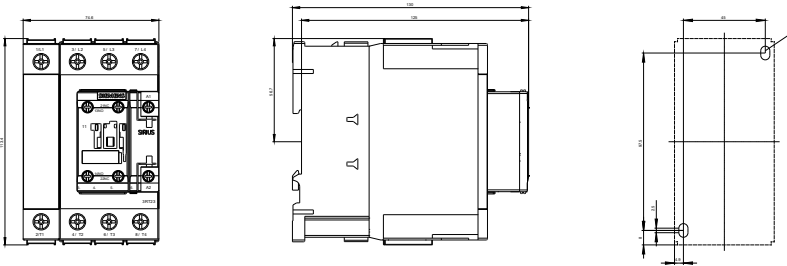
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT23361AF00>

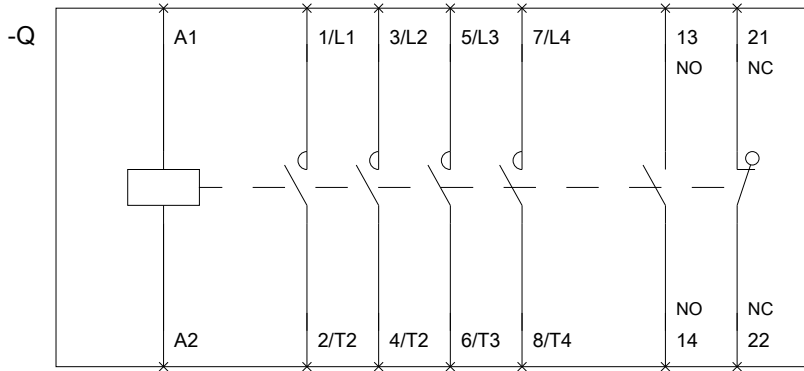
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT23361AF00/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=3RT23361AF00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT23361AF00&lang=en)





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