

2NO+2NC CONTACTOR, AC3: 11KW DC 24V 4-POLE,  
2NO+2NC, SZ: S0, SPRING-LOADED TERMINAL  
1NO+1NC INTEGR.

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> <li>of the contactor with added electronics-compatible auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000 5 000 000 10 000 000
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>on the front</li> </ul>		IP20
<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to DIN EN 81346-2</li> </ul>		Q Q

Main circuit:

<b>Number of poles for main current circuit</b>		4
<b>Number of NC contacts for main contacts</b>		2
<b>Number of NO contacts for main contacts</b>		2
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>at AC-1</li> </ul>		

— up to 690 V at ambient temperature 40 °C Rated value	A	40
— up to 690 V at ambient temperature 60 °C Rated value	A	35
• at AC-2 at AC-3 at 400 V		
— per NO contact Rated value	A	25
— per NC contact Rated value	A	20
<b>Operating current with 1 current path</b>		
• 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 DC-3 at DC-5		
— at 24 V per NC contact Rated value	A	20
— at 24 V per NO contact Rated value	A	20
— at 110 V per NC contact Rated value	A	1.25
— at 110 V per NO contact Rated value	A	2.5
— at 220 V per NC contact Rated value	A	0.5
— at 220 V per NO contact Rated value	A	1
— at 440 V per NC contact Rated value	A	0.045
— at 440 V per NO contact Rated value	A	0.09
<b>Operating current with 2 current paths in series</b>		
• 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 DC-3 at DC-5		
— at 110 V per NC contact Rated value	A	7.5
— at 110 V per NO contact Rated value	A	15
— at 220 V per NC contact Rated value	A	1.5
— at 220 V per NO contact Rated value	A	3
— at 24 V per NC contact Rated value	A	35
— at 24 V per NO contact Rated value	A	35
— at 440 V per NC contact Rated value	A	0.135
— at 440 V per NO contact Rated value	A	0.27
<b>Operating power</b>		
• at AC-1 at 400 V Rated value	kW	26
<b>Operating power</b>		
• at AC-1		
— at 230 V Rated value	kW	15

- at AC-2 at AC-3
  - at 230 V per NC contact Rated value
  - at 230 V per NO contact Rated value
  - at 400 V per NC contact Rated value
  - at 400 V per NO contact Rated value

kW	5.5
kW	5.5
kW	7.5
kW	11

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		DC
<b>Control supply voltage for DC</b>		
<ul style="list-style-type: none"> <li>• Rated value</li> </ul>	V	24
<b>Operating range factor control supply voltage rated value of the magnet coil for DC</b>		0.8 ... 1.1
<b>Closing power of the magnet coil for DC</b>	W	5.9
<b>Holding power of the magnet coil for DC</b>	W	5.9

#### 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> <li>• at 400 V Rated value</li> <li>• at 690 V Rated value</li> </ul>	A A A	10 3 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 A A A A A	2 1 0.15 0.9 0.3 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           <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 A A A A	6 3 10 2 1
<b>Contact reliability of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)

## UL/CSA ratings:

<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	2
<ul style="list-style-type: none"> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	3
<b>Contact rating of the auxiliary contacts acc. to UL</b>		A600 / Q600

## Short-circuit:

<b>Design of the fuse link</b>		
<ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of assignment 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A  gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A  fuse gL/gG: 10 A

## 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
<ul style="list-style-type: none"> <li>Side-by-side mounting</li> </ul>		Yes
<b>Height</b>	mm	102
<b>Width</b>	mm	61
<b>Depth</b>	mm	107
<b>Required spacing</b>		
<ul style="list-style-type: none"> <li>with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> </ul> </li> </ul>	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	6
	mm	0
	mm	0
	mm	0
	mm	0
	mm	0

— upwards	mm	0
— downwards	mm	0
— at the side	mm	6

#### Connections/ Terminals:

<b>Type of electrical connection</b>		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
<b>Type of connectable conductor cross-section</b>		
• for main contacts		
— solid		2x (1 ... 10 mm <sup>2</sup> )
— single or multi-stranded		2x (1 ... 10 mm <sup>2</sup> )
— finely stranded with core end processing		2x (1 ... 6 mm <sup>2</sup> )
— finely stranded without core end processing		2x (1 ... 6 mm <sup>2</sup> )
• for AWG conductors for main contacts		2x (18 ... 8)
• for auxiliary contacts		
— solid		2x (0.5 ... 2.5 mm <sup>2</sup> )
— single or multi-stranded		2x (0,5 ... 2,5 mm <sup>2</sup> )
— finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> )
— finely stranded without core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> )
• for AWG conductors for auxiliary contacts		2x (20 ... 14)

#### Safety related data:

<b>B10 value with high demand rate acc. to SN 31920</b>		1 000 000
<b>Proportion of dangerous failures</b>		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
<b>Product function Mirror contact acc. to IEC 60947-4-1</b>		Yes
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	y	20
<b>Protection against electrical shock</b>		finger-safe

#### Mechanical data:

<b>Size of contactor</b>		S0
--------------------------	--	----

#### 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	EMC	Functional Safety/Safety of Machinery
--------------------------	-----	---------------------------------------



[Type Examination](#)

Declaration of Conformity	Test Certificates	Shipping Approval
---------------------------	-------------------	-------------------



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Shipping Approval	other
-------------------	-------



[Confirmation](#)

other
-------

[Environmental Confirmations](#)



Further information

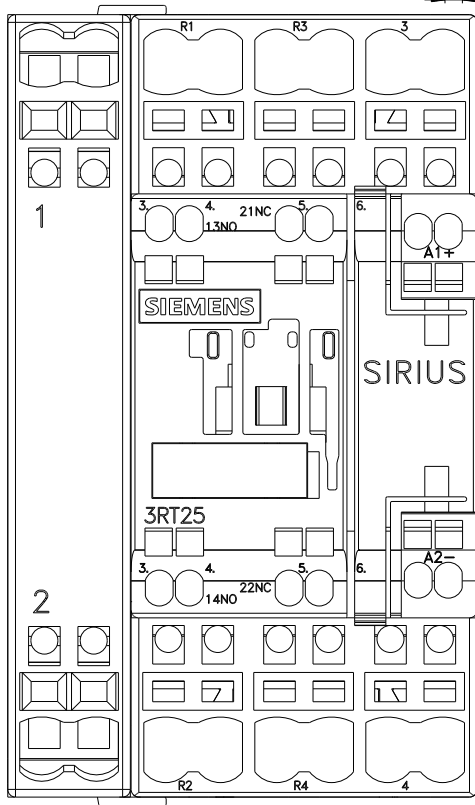
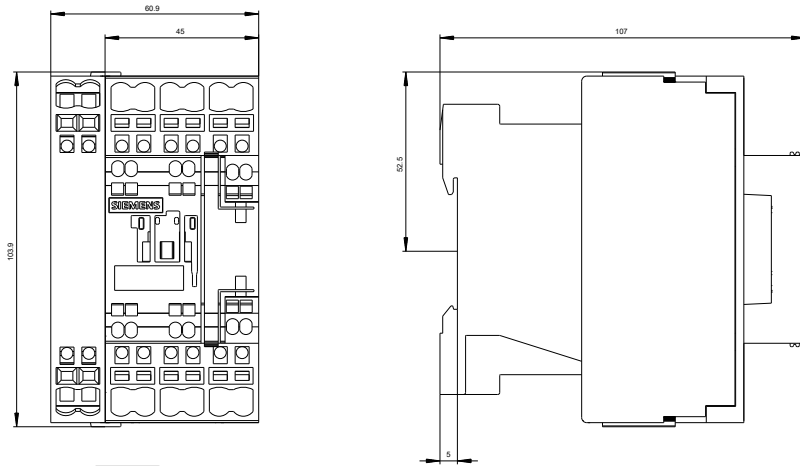
Information- and Downloadcenter (Catalogs, Brochures,...)  
<http://www.siemens.com/industrial-controls/catalogs>

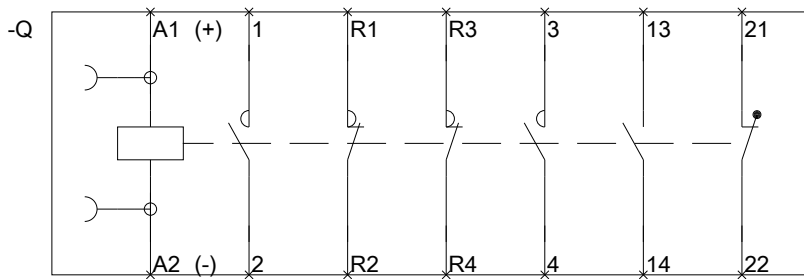
Industry Mall (Online ordering system)  
<http://www.siemens.com/industrymall>

Cax online generator  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT25262BB40>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<http://support.automation.siemens.com/WW/view/en/3RT25262BB40/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT25262BB40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT25262BB40&lang=en)





last modified:

11.03.2015