



Power contactor, AC-3 65 A, 30 kW / 400 V 24 V DC, 3-pole, Size S3, Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2 Preferred successor type is >>3RT2037-1KB40<<






<b>product brand name</b>	SIRIUS
<b>product designation</b>	power contactor
<b>General technical data</b>	
<b>size of contactor</b>	S3
insulation voltage rated value	1 000 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
protection class IP <ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>	IP20; IP20 on the front with cover / box terminal IP00
<b>shock resistance at rectangular impulse</b> <ul style="list-style-type: none"> <li>• at DC</li> </ul>	6,8g / 5 ms, 4g / 10 ms
<b>shock resistance with sine pulse</b> <ul style="list-style-type: none"> <li>• at DC</li> </ul>	10,6g / 5 ms, 6,2g / 10 ms
<b>mechanical service life (switching cycles)</b> <ul style="list-style-type: none"> <li>• of contactor typical</li> <li>• of the contactor with added electronically optimized 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>reference code acc. to IEC 81346-2</b>	Q
Substance Prohibitance (Date)	01.05.2012 00:00:00
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-25 ... +60 °C -55 ... +80 °C
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>number of NO contacts for main contacts</b>	3
<b>number of NC contacts for main contacts</b>	0
<b>operational current</b> <ul style="list-style-type: none"> <li>• at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>• at AC-1 <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul>	100 A 100 A

— up to 690 V at ambient temperature 60 °C rated value	90 A
— up to 1000 V at ambient temperature 40 °C rated value	50 A
— up to 1000 V at ambient temperature 60 °C rated value	40 A
● at AC-3	
— at 400 V rated value	65 A
— at 690 V rated value	47 A
— at 1000 V rated value	25 A
● at AC-4 at 400 V rated value	55 A
<b>connectable conductor cross-section in main circuit at AC-1</b>	
● at 60 °C minimum permissible	35 mm <sup>2</sup>
● at 40 °C minimum permissible	35 mm <sup>2</sup>
<b>operational current for approx. 200000 operating cycles at AC-4</b>	
● at 400 V rated value	28 A
● at 690 V rated value	20 A
<b>operational current</b>	
● at 1 current path at DC-1	
— at 24 V rated value	90 A
— at 110 V rated value	4.5 A
● with 2 current paths in series at DC-1	
— at 24 V rated value	90 A
— at 110 V rated value	90 A
● with 3 current paths in series at DC-1	
— at 24 V rated value	90 A
— at 110 V rated value	90 A
<b>operational current</b>	
● at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
● with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	90 A
— at 110 V rated value	90 A
● with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	90 A
— at 110 V rated value	90 A
<b>operating power</b>	
● at AC-1	
— at 230 V at 60 °C rated value	34 kW
— at 400 V rated value	59 kW
— at 690 V rated value	102 kW
— at 690 V at 60 °C rated value	102 kW
— at 1000 V at 60 °C rated value	66 W
● at AC-2 at 400 V rated value	30 kW
● at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
— at 1000 V rated value	30 W
<b>operating power for approx. 200000 operating cycles at AC-4</b>	
● at 400 V rated value	15.1 kW
● at 690 V rated value	18.6 kW
<b>thermal short-time current limited to 10 s</b>	600 A
<b>no-load switching frequency</b>	
● at DC	1 000 1/h




<b>operating frequency</b>	
<ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-4 maximum</li> </ul>	1 000 1/h 400 1/h 1 000 1/h 300 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	DC
<b>control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 V
<b>operating range factor control supply voltage rated value of magnet coil at DC</b>	
<ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>	0.8 1.1
<b>closing power of magnet coil at DC</b>	15 W
<b>holding power of magnet coil at DC</b>	15 W
<b>closing delay</b>	
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	90 ... 230 ms
<b>opening delay</b>	
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	14 ... 20 ms
<b>arcing time</b>	10 ... 15 ms
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
<b>operational 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> </ul>	6 A 3 A
<b>operational current at DC-12</b>	
<ul style="list-style-type: none"> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> </ul>	6 A 3 A 1 A
<b>operational current at DC-13</b>	
<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> <li>• at 220 V rated value</li> </ul>	10 A 2 A 1 A 0.3 A
<b>contact reliability of auxiliary contacts</b>	1 faulty switching per 100 million (17 V, 1 mA)
<b>UL/CSA ratings</b>	
<b>contact rating of auxiliary contacts according to UL</b>	A600 / Q600
<b>Short-circuit protection</b>	
<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 coordination 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>	fuse gL/gG: 250 A fuse gL/gG: 125 A fuse gL/gG: 10 A
<b>Installation/ mounting/ dimensions</b>	
<b>fastening method</b>	screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
<ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>	Yes
<b>height</b>	146 mm
<b>width</b>	70 mm
<b>depth</b>	152 mm
required spacing for grounded parts at the side	6 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>	screw-type terminals

<ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>	screw-type terminals
<b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul>	2x (2.5 ... 16 mm <sup>2</sup> ) 2x (10 ... 50 mm <sup>2</sup> ) 2x (2,5 ... 16 mm <sup>2</sup> ) 2x (2.5 ... 35 mm <sup>2</sup> ) 2x (10 ... 35 mm <sup>2</sup> ) 2x (10 ... 1/0)
<b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul>	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 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), 1x 12

**Certificates/ approvals**

<b>General Product Approval</b>	<b>EMC</b>	<b>Test Certificates</b>
    		<a href="#">Type Test Certificates/Test Report</a>

**Test Certificates**      **Marine / Shipping**

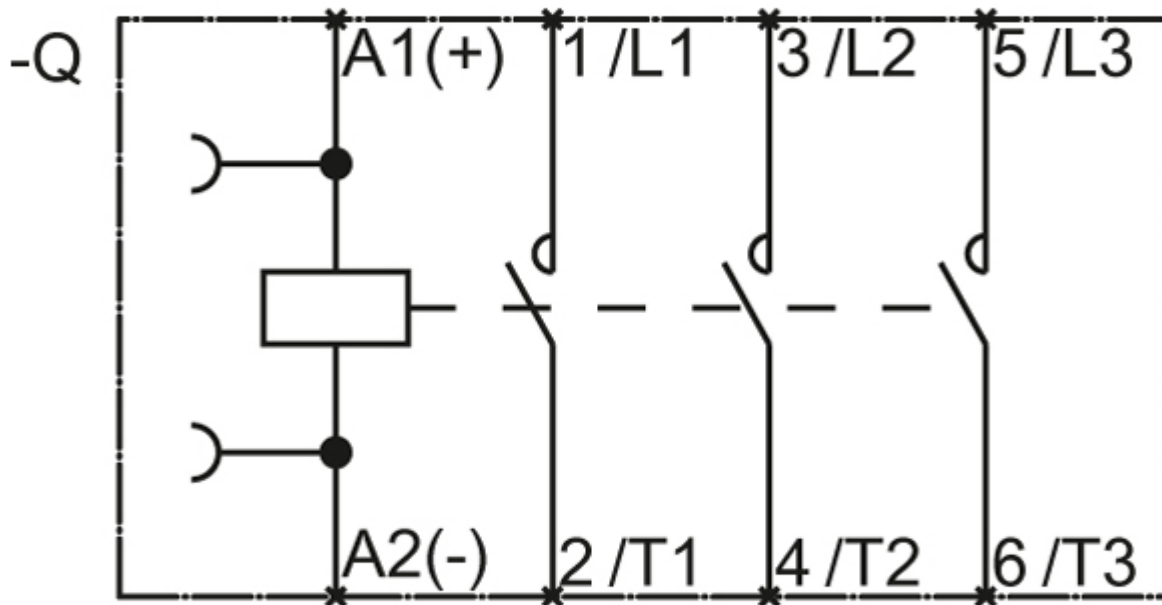
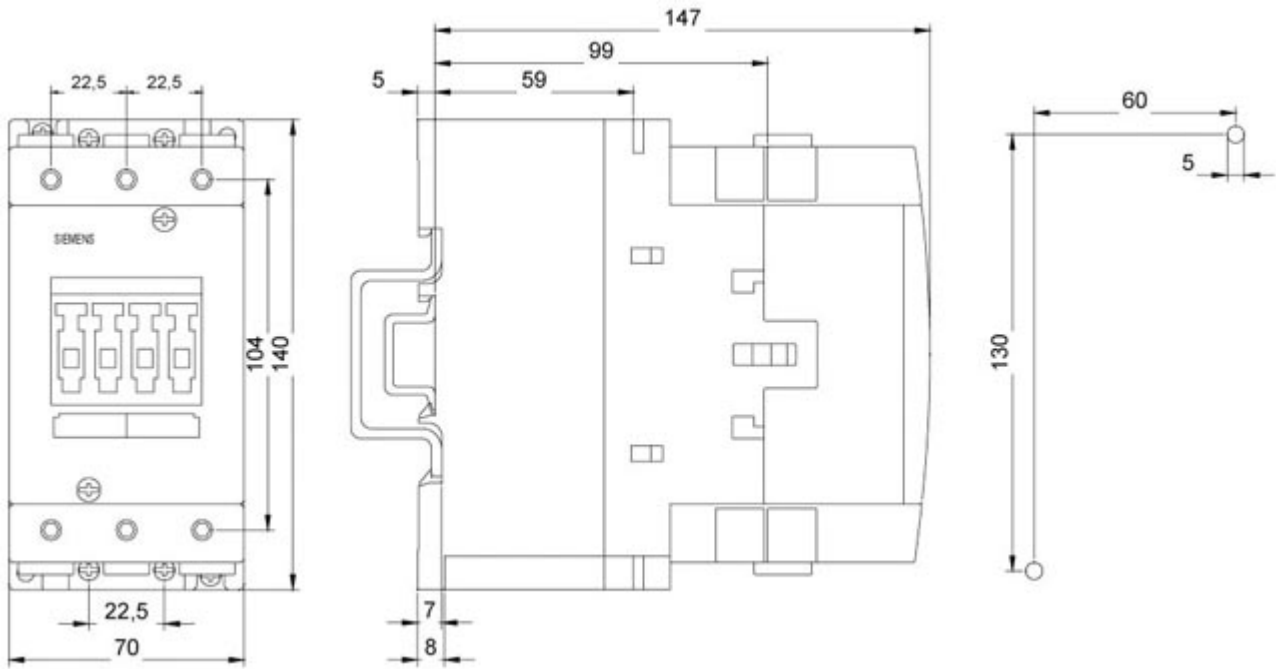
<a href="#">Special Test Certificate</a>	<a href="#">Miscellaneous</a>				
--	-------------------------------	--	--	--	--

**other**      **Railway**

<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>
-------------------------------	------------------------------	-------------------------------	--

**Further information**

**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<https://www.siemens.com/ic10>  
**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1044-1BB40>  
**Cax online generator**  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1044-1BB40>  
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1BB40>  
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1044-1BB40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1044-1BB40&lang=en)  
**Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current**  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1BB40/char>  
**Further characteristics (e.g. electrical endurance, switching frequency)**  
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1044-1BB40&objecttype=14&gridview=view1>



last modified:

12/23/2020 