



Contactor DC 24 V AC3 5.5 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
<b>General technical data</b>	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state per pole	1.24 W
• without load current share typical	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
• of contactor typical	30 000 000
• of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibition (Date)	05/01/2012
Net Weight	0.29 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
<b>Main circuit</b>	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	22 A

— at ambient temperature 60 °C rated value	20 A
● at AC-3	
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
● at AC-3e	
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
<b>connectable conductor cross-section in main circuit at AC-1</b>	
● at 60 °C minimum permissible	2.5 mm <sup>2</sup>
● at 40 °C minimum permissible	4 mm <sup>2</sup>
<b>operational current for approx. 200000 operating cycles at AC-4</b>	
● at 400 V rated value	4.1 A
● at 690 V rated value	3.3 A
<b>operating power</b>	
● at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
● at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
● at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
<b>operating power for approx. 200000 operating cycles at AC-4</b>	
● at 400 V rated value	2 kW
● at 690 V rated value	2.5 kW
<b>no-load switching frequency</b>	
● at DC	10 000 1/h
<b>operating frequency</b>	
● at AC-1 maximum	1 000 1/h
● at AC-3 maximum	750 1/h
● at AC-3e maximum	750 1/h
● at AC-4 maximum	250 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	DC
<b>control supply voltage at DC rated value</b>	24 V
<b>operating range factor control supply voltage rated value of magnet coil at DC</b>	
● initial value	0.8
● full-scale value	1.1
<b>closing power of magnet coil at DC</b>	4 W
<b>holding power of magnet coil at DC</b>	4 W
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
<b>operational current at AC-15</b>	
● at 230 V rated value	10 A
● at 400 V rated value	3 A
● at 690 V rated value	1 A
<b>operational current at DC-12</b>	
● at 24 V rated value	6 A

<ul style="list-style-type: none"> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> </ul>	<p>3 A</p> <p>1 A</p>
<b>operational current at DC-13</b> <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> </ul>	<p>6 A</p> <p>1 A</p> <p>0.3 A</p>
<b>contact reliability of auxiliary contacts</b>	<p>1 faulty switching per 100 million (17 V, 1 mA)</p>
<b>UL/CSA ratings</b>	
<p>yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value</p>	<p>7.5 hp</p>
<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 coordination 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	<p>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A</p> <p>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A</p> <p>fuse gL/gG: 10 A</p>
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	<p>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</p>
<p>fastening method side-by-side mounting</p>	<p>Yes</p>
<b>fastening method</b>	<p>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022</p>
<b>height</b>	<p>57.5 mm</p>
<b>width</b>	<p>45 mm</p>
<b>depth</b>	<p>73 mm</p>
<b>required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting                             <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>	<p>0 mm</p>
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>	<p>screw-type terminals</p> <p>screw-type terminals</p>
<p>type of connectable conductor cross-sections for main contacts</p> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>	<p>2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup></p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</p>
<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 or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul>	<p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup></p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</p> <p>2x (20 ... 16), 2x (18 ... 14), 2x 12</p>
<b>Safety related data</b>	
<p>product function mirror contact according to IEC 60947-4-1</p>	<p>Yes</p>
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	<p>IP20</p>
<b>touch protection on the front according to IEC 60529</b>	<p>finger-safe, for vertical contact from the front</p>
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	



[Confirmation](#)



EMV	Maritime application	other	Dangerous goods	Environment
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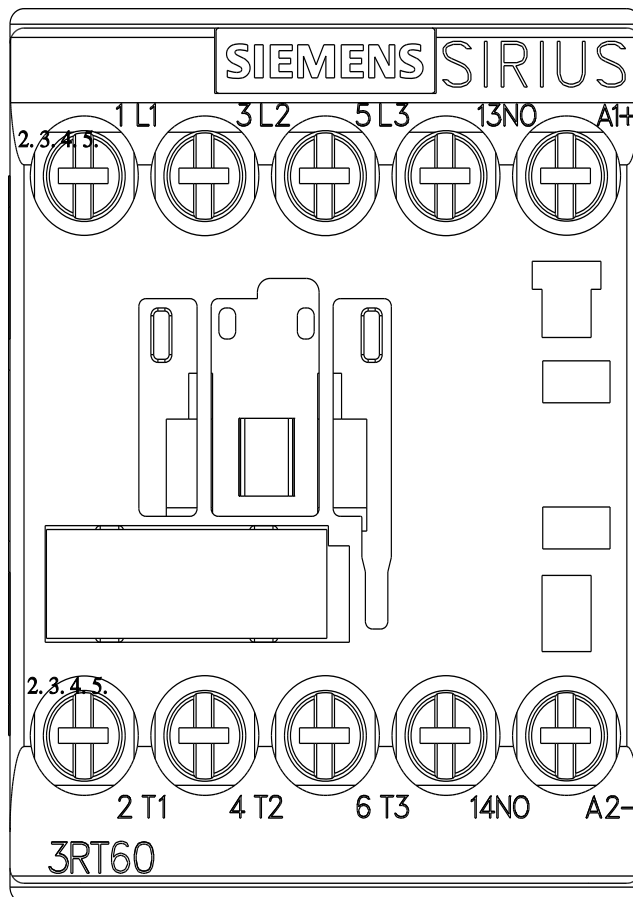
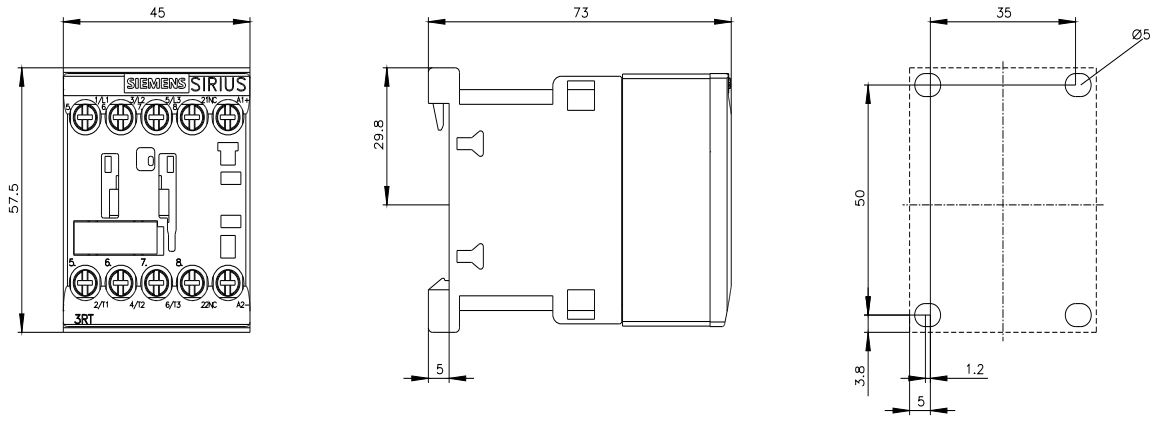
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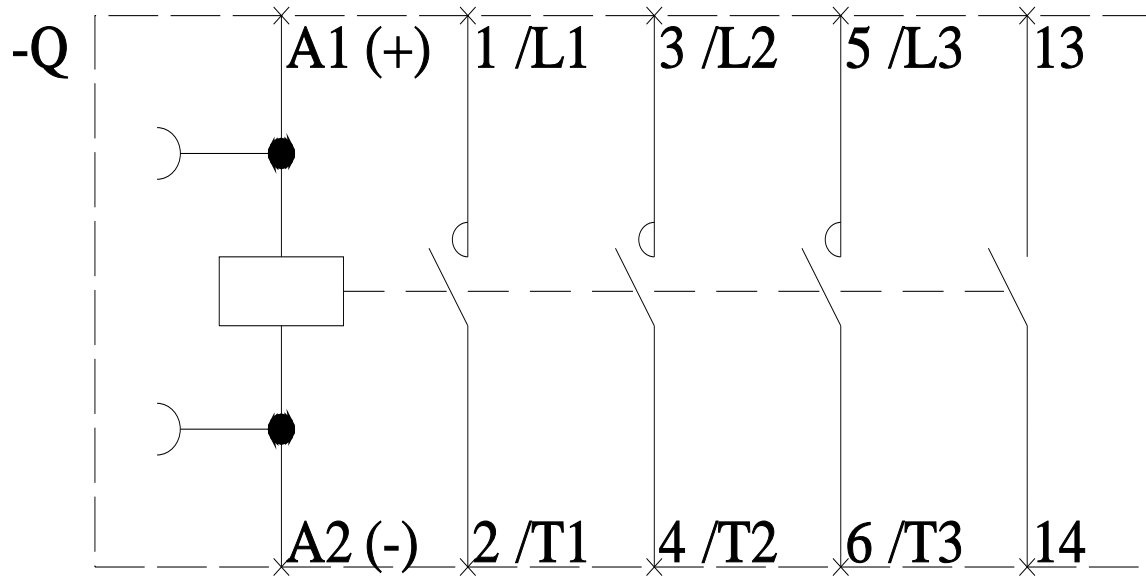
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Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>





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