

CONTACTOR, 132KW/400V/AC-3 AC(40...60HZ)/DC OPERATION  
 UC 110-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE  
 S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM  
 SCREW TERMINAL



Figure similar

product brand name	SIRIUS
Product designation	power contactor

**General technical data:**

<b>Size of contactor</b>	S10
<b>Insulation voltage</b>	
• Rated value	1 000 V
<b>Surge voltage resistance Rated value</b>	8 kV
<b>Protection class IP</b>	
• on the front	IP00
• of the terminal	IP00
<b>Degree of pollution</b>	3
<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

**Ambient conditions:**

<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
<b>Main circuit:</b>	
<b>Number of NO contacts for main contacts</b>	3
<b>Number of NC contacts for main contacts</b>	0
<b>Operating current</b>	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	330 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	330 A
— at ambient temperature 60 °C Rated value	300 A
• at AC-3	
— at 400 V Rated value	265 A
— at 690 V Rated value	265 A
<b>Connectable conductor cross-section in main circuit at AC-1</b>	
• at 60 °C minimum permissible	185 mm <sup>2</sup>
• at 40 °C minimum permissible	185 mm <sup>2</sup>
<b>Operating current for ≥ 200000 operating cycles at AC-4</b>	
• at 400 V Rated value	117 A
• at 690 V Rated value	105 A
<b>Operating current</b>	
• at 1 current path at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	33 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
<b>Operating current</b>	
• at 1 current path at DC-3 at DC-5	
— at 24 V Rated value	300 A
— at 110 V Rated value	3 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	300 A
— at 24 V Rated value	300 A

<ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> </ul> </li> </ul>	<p>300 A</p> <p>300 A</p>
<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 400 V Rated value</li> <li>— at 690 V Rated value</li> <li>— at 690 V at 60 °C Rated value</li> </ul> </li> <li>• at AC-2 at 400 V Rated value</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>	<p>113 kW</p> <p>197 kW</p> <p>340 kW</p> <p>340 kW</p> <p>151 kW</p> <p>85 kW</p> <p>151 kW</p> <p>189 kW</p> <p>265 kW</p>
<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>	<p>66 kW</p> <p>102 kW</p>
<b>Thermal short-time current limited to 10 s</b>	<p>2 400 A</p>
<b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b>	<p>18 W</p>
<b>No-load switching frequency</b> <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	<p>2 000 1/h</p> <p>2 000 1/h</p>
<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>	<p>800 1/h</p> <p>300 1/h</p> <p>700 1/h</p> <p>130 1/h</p>
<b>Control circuit/ Control:</b>	
<b>Type of voltage of the control supply voltage</b>	<p>AC/DC</p>
<b>Control supply voltage at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz Rated value</li> <li>• at 60 Hz Rated value</li> </ul>	<p>110 ... 127 V</p> <p>110 ... 127 V</p>
<b>Control supply voltage at DC</b> <ul style="list-style-type: none"> <li>• Rated value</li> <li>• Rated value</li> </ul>	<p>110 ... 127 V</p> <p>40 Hz</p>
<b>Control supply voltage frequency 2 Rated value</b>	<p>60 Hz</p>
<b>Operating range factor control supply voltage rated value of the magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>	<p>0.8 ... 1.1</p>

<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>	0.8 ... 1.1
<b>Operating range factor control supply voltage rated value of the magnet coil at DC</b>	0.8 ... 1.1
<b>Design of the surge suppressor</b>	with varistor
<b>Apparent pick-up power of the magnet coil at AC</b>	590 V·A
<b>Inductive power factor with closing power of the coil</b>	0.9
<b>Apparent holding power of the magnet coil at AC</b>	6.7 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.9
<b>Closing power of the magnet coil at DC</b>	650 W
<b>Holding power of the magnet coil at DC</b>	7.4 W
<b>Closing delay</b>	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	30 ... 95 ms
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	30 ... 95 ms
<b>Arcing time</b>	10 ... 15 ms

#### 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>	2
<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>	2
<b>Operating current at AC-12 maximum</b>	10 A
<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> </ul>	6 A 3 A
<b>Operating 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>Operating 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

#### UL/CSA ratings:

<b>Contact rating of the auxiliary contacts acc. to UL</b>	A600 / Q600
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#### 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> </ul> </li> </ul>	fuse gL/gG: 500 A

- with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

fuse gL/gG: 400 A

fuse gL/gG: 10 A

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>	screw fixing
• Side-by-side mounting	Yes
<b>Height</b>	210 mm
<b>Width</b>	145 mm
<b>Depth</b>	202 mm
<b>Required spacing</b>	
• for grounded parts	
— at the side	10 mm

#### 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 AWG conductors for main contacts	2/0 ... 500 kcmil
<b>Type of connectable conductor cross-section</b>	
• for auxiliary contacts	
— solid	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> )
— 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), 1x 12

#### Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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Test Certificates	Shipping Approval
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#### 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

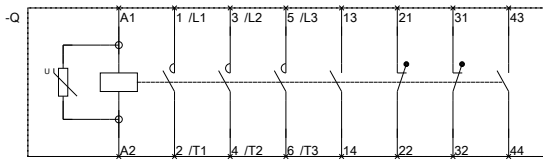
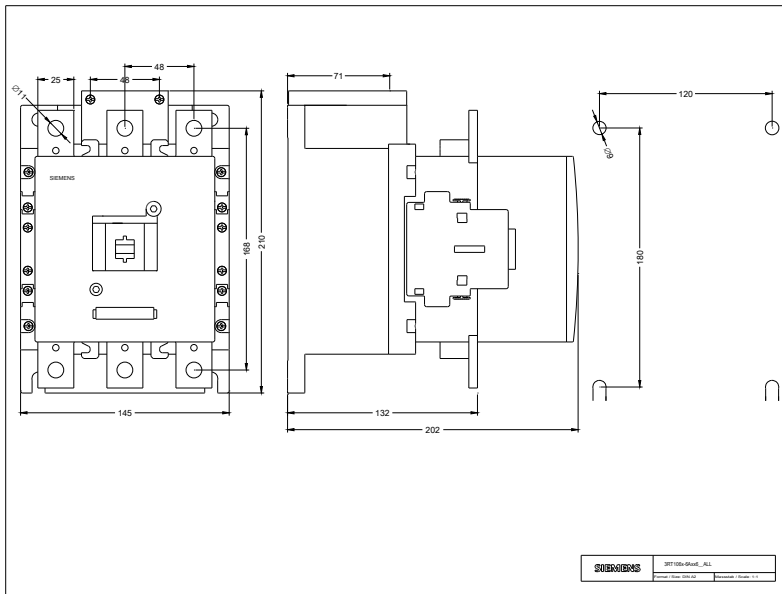
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10656AF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10656AF36>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT10656AF36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10656AF36&lang=en)



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