

CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC OPERATION  
UC 220...240V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6  
BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN.  
SCREW TERMINAL



Figure similar

product brand name	SIRIUS
Product designation	power contactor
General technical data:	
Size of contactor	S6
Insulation voltage	
• Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
Shock resistance	
• at rectangular impulse	
— at AC	8,5g / 5 ms, 4,2g / 10 ms
— at DC	8,5g / 5 ms, 4,2g / 10 ms
• with sine pulse	
— at AC	13,4g / 5 ms, 6,5g / 10 ms
— at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	

• 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

#### Main circuit:

<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	185 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	185 A
— at ambient temperature 60 °C Rated value	160 A
• at AC-3	
— at 400 V Rated value	150 A
— at 690 V Rated value	150 A
<b>Connectable conductor cross-section in main circuit at AC-1</b>	
• at 60 °C minimum permissible	70 mm²
• at 40 °C minimum permissible	95 mm²
<b>Operating current for ≥ 200000 operating cycles at AC-4</b>	
• at 400 V Rated value	68 A
• at 690 V Rated value	57 A
<b>Operating current</b>	
• at 1 current path at DC-1	
— at 24 V Rated value	160 A
— at 110 V Rated value	18 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
<b>Operating current</b>	

<ul style="list-style-type: none"> <li>• at 1 current path 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> </ul> </li> <li>• with 2 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> <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>	160 A 2.5 A  160 A 160 A  160 A 160 A
<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>	60 kW 105 kW 181 kW 181 kW 84 kW  50 kW 84 kW 105 kW 146 kW
<b>Operating power for <math>\geq 200000</math> 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>	38 kW 55 kW
<b>Thermal short-time current limited to 10 s</b>	1 300 A
<b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b>	9 W
<b>No-load switching frequency</b> <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	2 000 1/h 2 000 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>	800 1/h 300 1/h 750 1/h 130 1/h
<b>Control circuit/ Control:</b>	
<b>Type of voltage of the control supply voltage</b>	AC/DC
<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>	220 ... 240 V 220 ... 240 V
<b>Control supply voltage at DC</b>	

• Rated value	220 ... 240 V
• Rated value	40 Hz
<b>Control supply voltage frequency 2 Rated value</b>	60 Hz
<b>Operating range factor control supply voltage rated value of the magnet coil at AC</b>	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	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>	300 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>	5.8 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.8
<b>Closing power of the magnet coil at DC</b>	360 W
<b>Holding power of the magnet coil at DC</b>	5.2 W
<b>Closing delay</b>	
• at AC	20 ... 95 ms
• at DC	20 ... 95 ms
<b>Opening delay</b>	
• at AC	40 ... 60 ms
• at DC	40 ... 60 ms
<b>Arcing time</b>	10 ... 15 ms

#### Auxiliary circuit:

<b>Number of NC contacts</b>	
• for auxiliary contacts	
— instantaneous contact	2
<b>Number of NO contacts</b>	
• for auxiliary contacts	
— instantaneous contact	2
<b>Operating current at AC-12 maximum</b>	10 A
<b>Operating current at AC-15</b>	
• at 230 V Rated value	6 A
• at 400 V Rated value	3 A
<b>Operating current at DC-12</b>	
• at 60 V Rated value	6 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1 A
<b>Operating current at DC-13</b>	
• at 24 V Rated value	10 A
• at 60 V Rated value	2 A

- at 110 V Rated value
- at 220 V Rated value

1 A  
0.3 A

#### UL/CSA ratings:

**Contact rating of the auxiliary contacts acc. to UL**

A600 / Q600

#### Short-circuit protection

##### Design of the fuse link

- for short-circuit protection of the main circuit
  - with type of assignment 1 required
  - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

fuse gL/gG: 355 A

fuse gL/gG: 315 A

fuse gL/gG: 10 A

#### Installation/ mounting/ dimensions:

##### Mounting type

- Side-by-side mounting

screw fixing

Yes

##### Height

172 mm

##### Width

120 mm

##### Depth

170 mm

##### Required spacing

- for grounded parts
  - at the side

10 mm

#### Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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[Baumusterbescheinigung](#)



Test Certificates	Shipping Approval
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[Typprüfbescheinigung/Werkzeugzeugnis](#)

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Shipping Approval	other
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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

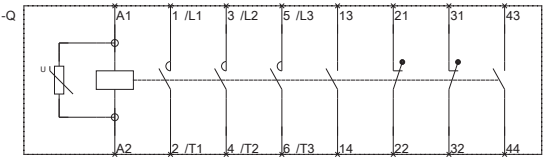
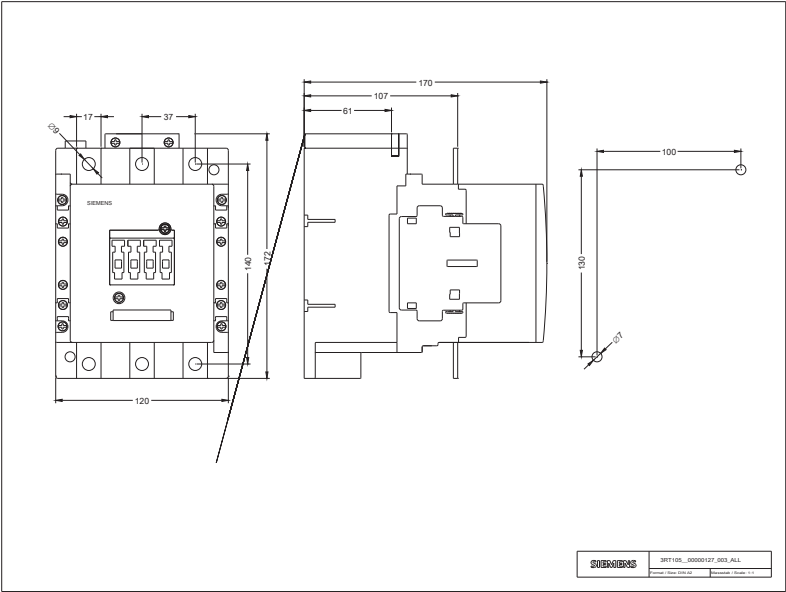
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10556AP36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10556AP36>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT10556AP36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10556AP36&lang=en)



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3RT107 - A.6\_01\_4\_IEC.DXF