



Figure similar

VAC. CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC  
OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-  
POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING  
MECHANISM

<b>product brand name</b>	SIRIUS
<b>Product designation</b>	power contactor
<b>General technical data:</b>	
<b>Size of contactor</b>	S12
<b>Insulation voltage</b>	
• Rated value	1 000 V
<b>Degree of pollution</b>	3
<b>Surge voltage resistance Rated value</b>	8 kV
<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
<b>Protection class IP</b>	
• on the front	IP00
• of the terminal	IP00
<b>Equipment marking</b>	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
<b>Ambient conditions:</b>	
<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 poles for main current circuit</b>	3
<b>Number of NC contacts for main contacts</b>	0
<b>Number of NO contacts for main contacts</b>	3
<b>Connectable conductor cross-section in main circuit at AC-1</b>	
<ul style="list-style-type: none"> <li>• at 60 °C minimum permissible</li> </ul>	240 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• at 40 °C minimum permissible</li> </ul>	300 mm <sup>2</sup>
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at AC-1 at 400 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C Rated value</li> </ul> </li> </ul>	610 A
<ul style="list-style-type: none"> <li>• at AC-1 up to 690 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C Rated value</li> <li>— at ambient temperature 60 °C Rated value</li> </ul> </li> </ul>	610 A 550 A
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> </ul>	400 A 400 A
<ul style="list-style-type: none"> <li>• at AC-4 at 400 V Rated value</li> </ul>	350 A
<b>Operating current for ≥ 200000 operating cycles at AC-4</b>	
<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>	175 A
<ul style="list-style-type: none"> <li>• at 690 V Rated value</li> </ul>	123 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 690 V at 60 °C Rated value</li> </ul> </li> </ul>	208 kW 624 kW
<b>Operating power for ≥ 200000 operating cycles at AC-4</b>	
<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>	98 kW
<ul style="list-style-type: none"> <li>• at 690 V Rated value</li> </ul>	172 kW
<b>Thermal short-time current restricted to 10 s</b>	3 200 A
<b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b>	21 W
<b>No-load switching frequency</b>	
<ul style="list-style-type: none"> <li>• with AC</li> </ul>	2 000 1/h
<ul style="list-style-type: none"> <li>• for DC</li> </ul>	2 000 1/h
<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>• at AC-1 maximum</li> </ul>	700 1/h
<ul style="list-style-type: none"> <li>• at AC-2 maximum</li> </ul>	250 1/h
<ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>	750 1/h
<ul style="list-style-type: none"> <li>• at AC-4 maximum</li> </ul>	250 1/h

**Control circuit/ Control:**

<b>Type of voltage of the control supply voltage</b>	AC/DC
<b>Control supply voltage with 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 for DC</b> <ul style="list-style-type: none"><li>• Rated value</li><li>• Rated value</li></ul>	220 ... 240 V 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 with AC</b> <ul style="list-style-type: none"><li>• at 50 Hz</li><li>• at 60 Hz</li></ul>	0.8 ... 1.1 0.8 ... 1.1
<b>Operating range factor control supply voltage rated value of the magnet coil for DC</b>	0.8 ... 1.1
<b>Design of the surge suppressor</b>	with varistor
<b>Apparent pick-up power of the magnet coil with AC</b>	830 V·A
<b>Inductive power factor with closing power of the coil</b>	0.9
<b>Apparent holding power of the magnet coil with AC</b>	9.2 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.9
<b>Closing power of the magnet coil for DC</b>	920 W
<b>Holding power of the magnet coil for DC</b>	10 W
<b>Closing delay</b> <ul style="list-style-type: none"><li>• with AC</li><li>• for DC</li></ul>	45 ... 100 ms 45 ... 100 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>	<p>10 A</p> <p>2 A</p> <p>1 A</p> <p>0.3 A</p>

**UL/CSA ratings:**

<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>	<p>fuse gL/gG: 800 A</p> <p>fuse gL/gG: 800 A</p> <p>fuse gL/gG: 10 A</p>

**Installation/ mounting/ dimensions:**

<b>Mounting type</b>	screw fixing
<ul style="list-style-type: none"> <li>• Side-by-side mounting</li> </ul>	Yes
<b>Height</b>	210 mm
<b>Width</b>	145 mm
<b>Depth</b>	206 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>	10 mm

**Connections/ Terminals:**

<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>	<p>screw-type terminals</p> <p>screw-type terminals</p>
<b>Type of connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• for AWG conductors for main contacts</li> </ul>	2/0 ... 500 kcmil
<b>Type of connectable conductor cross-section</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>• for AWG conductors for auxiliary contacts</li> </ul>	<p>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>)</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), 1x 12</p>

**Certificates/ approvals:**

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
--------------------------	---------------------------------------	---------------------------



CCC



CSA



UL



[Type Examination](#)



EG-Konf.

Test Certificates	Shipping Approval	other
-------------------	-------------------	-------

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



GL



RMRS

[Confirmation](#)

other
-------

[Environmental Confirmations](#)

[other](#)

### 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**

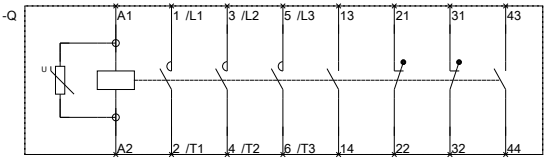
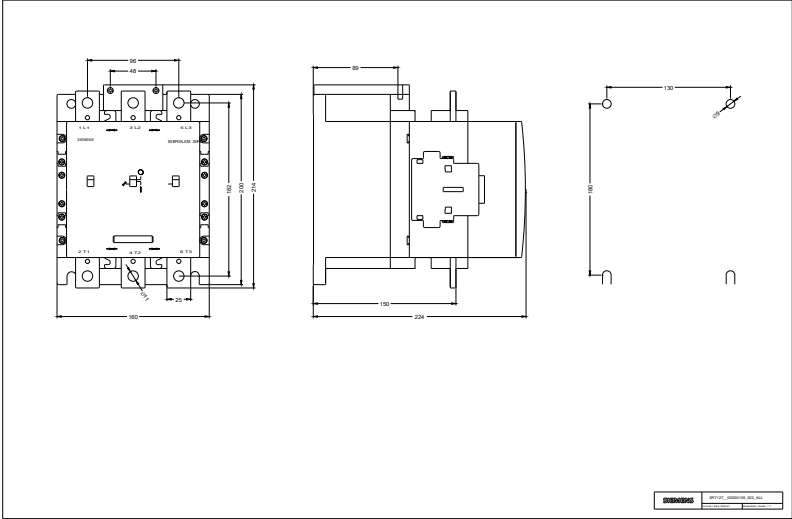
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT12756AP36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT12756AP36>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT12756AP36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT12756AP36&lang=en)



last modified:

02.06.2015

3RT106-A-6\_01\_4\_IEC.DXF  
 3RT107-A-6\_01\_4\_IEC.DXF