



CONTACTOR, 55KW/400V/AC-3 AC(40...60HZ)/DC  
OPERATION UC 21...27,3V AUXIL. CONTACTS  
2NO+2NC 3-POLE, SIZE S6 WITH BOX TERMINALS  
ELECTRONIC OPERATING MECHANISM WITH PLC  
INTERFACE 24V DC SCREW TERMINAL

Figure similar

product brand name		SIRIUS
Product designation		power contactor

General technical data:

<b>Insulation voltage</b>		
• Rated value	V	1 000
<b>Degree of pollution</b>		3
<b>Surge voltage resistance Rated value</b>	kV	8
<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>Thermal short-time current restricted to 10 s</b>	A	1 100
<b>Protection class IP</b>		
• on the front		IP20
• of the terminal		IP00
<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

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>Operating current</b>		

<ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 400 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 60 °C Rated value</li> </ul> </li> <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> <li>• at AC-4 at 400 V Rated value</li> </ul>	A	160
	A	160
	A	140
	A	115
	A	115
	A	97
<b>Operating current with 1 current path</b>		
<ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• 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> </ul>	A	160
	A	18
	A	160
	A	2.5
<b>Operating current with 2 current paths in series</b>		
<ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• 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>	A	160
	A	160
	A	160
	A	160
	A	160
<b>Operating current with 3 current paths in series</b>		
<ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• 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>	A	160
	A	160
	A	160
	A	160
	A	160
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-1 at 400 V Rated value</li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-4 at 400 V Rated value</li> </ul>	kW	92
	kW	64
	W	55 000
<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> <li>— at 690 V Rated value</li> </ul> </li> <li>• at AC-3</li> </ul>	kW	53
	kW	159
	kW	159

— at 230 V Rated value	kW	37
— at 400 V Rated value	kW	64
— at 500 V Rated value	kW	81
— at 690 V Rated value	kW	113
<b>Operating power for <math>\geq 200000</math> operating cycles at AC-4</b>		
• at 400 V Rated value	kW	29
• at 690 V Rated value	kW	48
<b>Operating frequency</b>		
• at AC-3 maximum	1/h	1 000

Control circuit/ Control:		
<b>Type of voltage of the control supply voltage</b>		AC/DC
<b>Control supply voltage with AC</b>		
• at 50 Hz Rated value	V	21 ... 27.3
• at 60 Hz Rated value	V	21 ... 27.3
<b>Control supply voltage for DC</b>		
• Rated value	V	21 ... 27.3
• Rated value	Hz	40
<b>Control supply voltage frequency 2 Rated value</b>	Hz	60
<b>Operating range factor control supply voltage rated value of the magnet coil with 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 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>	V·A	280
<b>Apparent holding power of the magnet coil with AC</b>	V·A	4.4
<b>Closing power of the magnet coil for DC</b>	W	320
<b>Holding power of the magnet coil for DC</b>	W	2.8
<b>Inductive power factor</b>		
• with closing power of the coil		0.8
• with the holding power of the coil		0.4

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-15</b>		
• at 230 V Rated value	A	6

<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>	A	3
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at DC-12 at 220 V Rated value</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at DC-13 at 220 V Rated value</li> </ul>	A	0.3
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at DC-12 <ul style="list-style-type: none"> <li>— at 60 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul>	A	6
	A	3
<ul style="list-style-type: none"> <li>• at DC-13 <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> </ul> </li> </ul>	A	10
	A	2
	A	1

#### 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> <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: 355 A fuse gL/gG: 315 A fuse gL/gG: 10 A

#### 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>	mm	172
<b>Width</b>	mm	120
<b>Depth</b>	mm	170
<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>	mm	10

#### 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>		screw-type terminals screw-type terminals
<b>Type of connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> </ul>		max. 2x 70 mm <sup>2</sup> max. 1x 50, 1x 70 mm <sup>2</sup> max. 1x 50, 1x 70 mm <sup>2</sup> 2x 1/0

- for auxiliary contacts
  - solid
  - finely stranded with core end processing
- for AWG conductors for auxiliary contacts

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

#### Mechanical data:

**Size of contactor** S6





#### Ambient conditions:

**Installation altitude at height above sea level maximum** m 2 000

#### Ambient temperature

- during operation °C -25 ... +60
- during storage °C -55 ... +80

#### Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
  	<a href="#">Type Examination</a>	 EG-Konf.	<a href="#">Type Test Certificates/Test Report</a>

Test Certificates	Shipping Approval	other
<a href="#">Special Test Certificate</a>	   	<a href="#">Environmental Confirmations</a>

other
<a href="#">other</a> <a href="#">Confirmation</a>

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

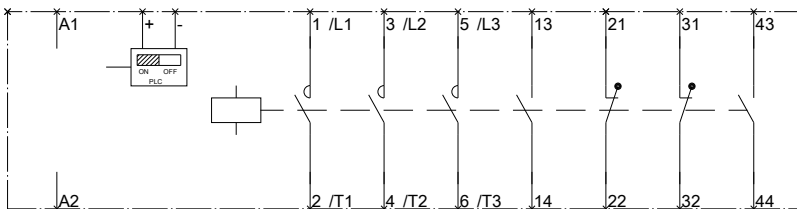
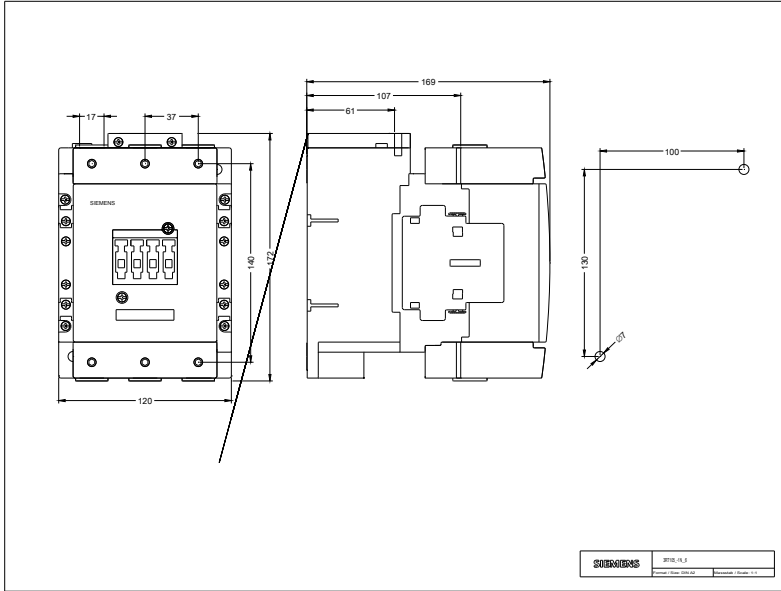
<http://www.siemens.com/industrial-controls/catalogs>

##### 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=3RT10541NB36>



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