



Figure similar

CONTACTOR, AC-3 22 KW/400 V, AC 230 V 50/60 HZ, 3-POLE, SIZE S2, CAGE CLAMP

product brand name		SIRIUS
Product designation		power contactor

General technical data:

Insulation voltage		
• Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
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
Thermal short-time current restricted to 10 s	A	400
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

Main circuit:

Number of poles for main current circuit		3
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		3
Operating current		

<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	60
	A	60
	A	55
	A	50
	A	24
	A	41
<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	55
	A	4.5
	A	35
	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	55
	A	25
	A	25
	A	55
<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	55
	A	55
	A	55
	A	55
<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	38
	kW	22
	W	22 000
<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	22
	kW	66
	kW	66

— at 230 V Rated value	kW	15
— at 400 V Rated value	kW	22
— at 500 V Rated value	kW	30
— at 690 V Rated value	kW	22
<b>Operating power for <math>\geq 200000</math> operating cycles at AC-4</b>		
• at 400 V Rated value	kW	12.6
• at 690 V Rated value	kW	11.4
<b>Operating frequency</b>		
• at AC-3 maximum	1/h	800

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		AC
<b>Control supply voltage with AC</b>		
• at 50 Hz Rated value	V	230
• at 60 Hz Rated value	V	230
• Rated value	Hz	50
<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		0.85 ... 1.1
<b>Apparent pick-up power of the magnet coil with AC</b>	V·A	170
<b>Apparent holding power of the magnet coil with AC</b>	V·A	15
<b>Inductive power factor</b>		
• with closing power of the coil		0.76
• with the holding power of the coil		0.35

#### Auxiliary circuit:

<b>Number of NC contacts</b>		
• for auxiliary contacts		
— instantaneous contact		0
<b>Number of NO contacts</b>		
• for auxiliary contacts		
— instantaneous contact		0
<b>Operating current at AC-15</b>		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
<b>Operating current</b>		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	A	0.3
<b>Operating current</b>		
• at DC-12		

— at 60 V Rated value	A	6
— at 110 V Rated value	A	3
• at DC-13		
— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	1
<b>Contact reliability of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)

#### 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>		
• for short-circuit protection of the main circuit		
— with type of assignment 1 required		fuse gL/gG: 160 A
— with type of assignment 2 required		fuse gL/gG: 80 A
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 10 A

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		
• Side-by-side mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
<b>Height</b>	mm	112
<b>Width</b>	mm	55
<b>Depth</b>	mm	115
<b>Required spacing</b>		
• for grounded parts		
— at the side	mm	6

#### Connections/ Terminals:

<b>Type of electrical connection</b>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		Cage Clamp terminals
<b>Type of connectable conductor cross-section</b>		
• for main contacts		
— solid		2x (0.75 ... 16 mm²)
— stranded		2x (0.75 ... 25 mm²)
— single or multi-stranded		2x (0,75 ... 16 mm²)
— finely stranded with core end processing		2x (0.75 ... 16 mm²)
— finely stranded without core end processing		2x (0.75 ... 16 mm²)
• for AWG conductors for main contacts		2x (18 ... 2)
• for auxiliary contacts		
— solid		2x (0.25 ... 2.5 mm²)

- finely stranded with core end processing
- finely stranded without core end processing
- for AWG conductors for auxiliary contacts

2x (0.25 ... 1.5 mm<sup>2</sup>)

2x (0.25 ... 2.5 mm<sup>2</sup>)

2x (24 ... 14)

#### Mechanical data:

**Size of contactor**

S2

#### Ambient conditions:

**Installation altitude at height above sea level maximum**

m

2 000

**Ambient temperature**

- during operation
- during storage

°C

-25 ... +60

°C

-55 ... +80

#### Certificates/ approvals:

**General Product Approval**

**Functional Safety/Safety of Machinery**

**Declaration of Conformity**

**Test Certificates**



[Type Examination](#)



EG-Konf.

[Type Test Certificates/Test Report](#)

**Test Certificates**

**Shipping Approval**

[Special Test Certificate](#)



ABS



DNV



GL



LRS



RINA

**Shipping Approval**

**other**



RMRS

[Confirmation](#)

[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=3RT10363AL20>

