



Figure similar

VAC. CONTACTOR, 160KW/400V/AC-3
AC(40...60HZ)/DC OPERATION UC 42-48V AUXILIARY
CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR
CONNECTIONS CONVENT. OPERATING
MECHANISM

product brand name	SIRIUS
Product designation	power contactor

General technical data:

Insulation voltage		
• Rated value	V	1 000
Degree of pollution		3
Surge voltage resistance Rated value	kV	8
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	2 400
Protection class IP		
• on the front		IP00
• 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"> • at AC-1 <ul style="list-style-type: none"> — at 400 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value — at 690 V Rated value • at AC-4 at 400 V Rated value 	A	330
<ul style="list-style-type: none"> • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-4 at 400 V Rated value 	kW	197
<ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value • at AC-3 <ul style="list-style-type: none"> — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value 	kW	113
	kW	340
	kW	340
	kW	97
	kW	171
	kW	215
	kW	288
Operating power for ≥ 200000 operating cycles at AC-4 <ul style="list-style-type: none"> • at 400 V Rated value • at 690 V Rated value 	kW	79
	kW	138
Operating frequency <ul style="list-style-type: none"> • at AC-3 maximum 	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
<ul style="list-style-type: none"> • at 50 Hz Rated value • at 60 Hz Rated value 	V	42 ... 48
	V	42 ... 48
Control supply voltage for DC		
<ul style="list-style-type: none"> • Rated value • Rated value 	V	42 ... 48
	Hz	40
Control supply voltage frequency 2 Rated value	Hz	60
Operating range factor control supply voltage rated value of the magnet coil with AC		

<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 		0.8 ... 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 ... 1.1
Design of the surge suppressor		with varistor
Apparent pick-up power of the magnet coil with AC	V·A	630
Apparent holding power of the magnet coil with AC	V·A	7.4
Closing power of the magnet coil for DC	W	700
Holding power of the magnet coil for DC	W	8.2
Inductive power factor		
<ul style="list-style-type: none"> • with closing power of the coil • with the holding power of the coil 		0.9
		0.9

Auxiliary circuit:

Number of NC contacts		
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — instantaneous contact 		2
Number of NO contacts		
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — instantaneous contact 		2
Operating current at AC-15		
<ul style="list-style-type: none"> • at 230 V Rated value • at 400 V Rated value 	A	6
	A	3
Operating current		
<ul style="list-style-type: none"> • at DC-12 at 220 V Rated value • at DC-13 at 220 V Rated value 	A	1
	A	0.3
Operating current		
<ul style="list-style-type: none"> • at DC-12 <ul style="list-style-type: none"> — at 60 V Rated value — at 110 V Rated value • at DC-13 <ul style="list-style-type: none"> — at 24 V Rated value — at 60 V Rated value — at 110 V Rated value 	A	6
	A	3
	A	10
	A	2
	A	1

UL/CSA ratings:

Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
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Short-circuit:

Design of the fuse link		
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of assignment 1 required — with type of assignment 2 required 		fuse gL/gG: 500 A
		fuse gL/gG: 500 A

- for short-circuit protection of the auxiliary switch required

fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

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

Connections/ Terminals:

Type of electrical connection		
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		screw-type terminals screw-type terminals
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for AWG conductors for main contacts • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing • for AWG conductors for auxiliary contacts 		2/0 ... 500 kcmil 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

Mechanical data:

Size of contactor		S10
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Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
<ul style="list-style-type: none"> • during operation 	°C	-25 ... +60
<ul style="list-style-type: none"> • during storage 	°C	-55 ... +80

Certificates/ approvals:

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



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

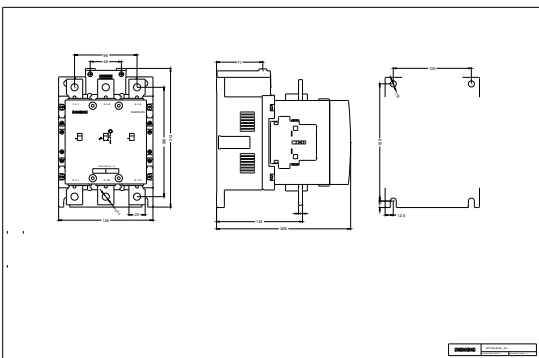
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT12666AD36>

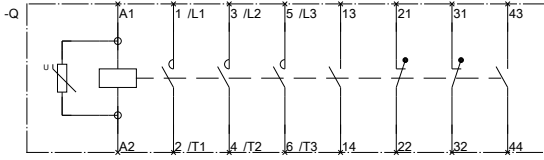
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT12666AD36/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT12666AD36&lang=en





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