



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION
 UC 220...240V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6
 BAR CONNECTIONS CONVENT. OPERATING MECHANISM
 SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:

Insulation voltage	
• Rated value	1 000 V
Degree of pollution	3
Surge voltage resistance Rated value	8 kV
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	1 480 A
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 	<p>215 A</p> <p>215 A</p> <p>185 A</p> <p>185 A</p> <p>170 A</p> <p>160 A</p>
<p>Operating current with 1 current path</p> <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value 	<p>160 A</p> <p>18 A</p> <p>160 A</p> <p>2.5 A</p>
<p>Operating current with 2 current paths in series</p> <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value 	<p>160 A</p> <p>160 A</p> <p>160 A</p> <p>160 A</p>
<p>Operating current with 3 current paths in series</p> <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value 	<p>160 A</p> <p>160 A</p> <p>160 A</p> <p>160 A</p>
<p>Operating power</p> <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 	<p>70 kW</p> <p>210 kW</p>
<p>Operating power for ≥ 200000 operating cycles at AC-4</p> <ul style="list-style-type: none"> • at 400 V Rated value • at 690 V Rated value 	<p>45 kW</p> <p>65 kW</p>
<p>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</p>	<p>13 W</p>

Operating frequency	
<ul style="list-style-type: none"> • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum 	<p>800 1/h</p> <p>300 1/h</p> <p>750 1/h</p> <p>130 1/h</p>
No-load switching frequency	
<ul style="list-style-type: none"> • with AC • for DC 	<p>2 000 1/h</p> <p>2 000 1/h</p>

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 	<p>220 ... 240 V</p> <p>220 ... 240 V</p>
Control supply voltage for DC	
<ul style="list-style-type: none"> • Rated value • Rated value 	<p>220 ... 240 V</p> <p>40 Hz</p>
Control supply voltage frequency 2 Rated value	60 Hz
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 	<p>0.8 ... 1.1</p> <p>0.8 ... 1.1</p>
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
Closing power of the magnet coil for DC	360 W
Holding power of the magnet coil for DC	5.2 W

Auxiliary circuit:

Number of NC contacts	
<ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact 	<p>2</p>
Number of NO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact 	<p>2</p>
Operating current at AC-15	
<ul style="list-style-type: none"> • at 230 V Rated value • at 400 V Rated value 	<p>6 A</p> <p>3 A</p>

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 	

- 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	screw fixing
• Side-by-side mounting	Yes
Height	172 mm
Width	120 mm
Depth	170 mm
Required spacing	
• for grounded parts	
— at the side	10 mm

Connections/ Terminals:

Type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
• for AWG conductors for main contacts	4 ... 250 kcmil
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 1x 12

Mechanical data:

Size of contactor	S6
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Ambient conditions:

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C

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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[Type Test Certificates/Test Report](#)

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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

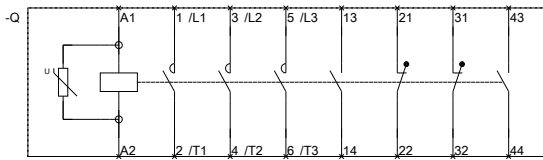
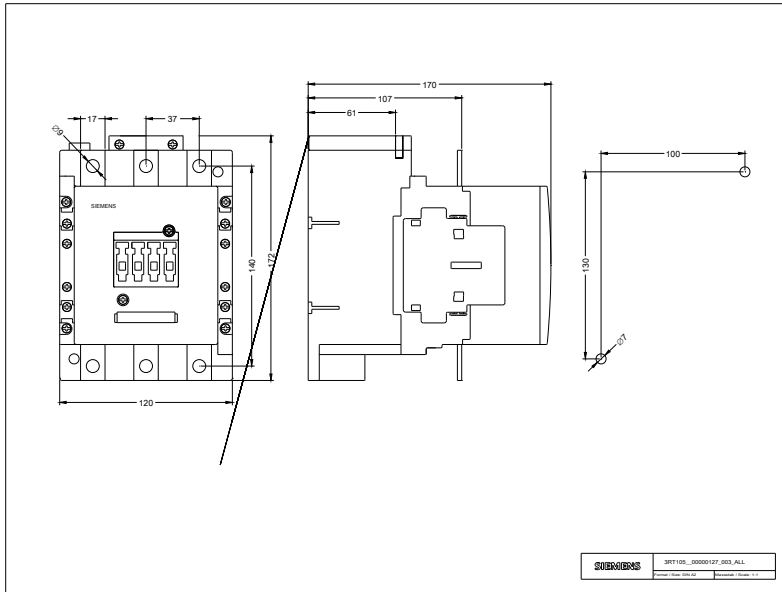
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10566AP36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10566AP36>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10566AP36&lang=en



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3RT106--A.6.01_4_IEC.DXF
3RT107--A.6.01_4_IEC.DXF