

CONTACTOR, 75KW/400V/AC-3 W/O COIL AUXIL. CONTACTS
2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS
CONVENTIONAL OPERATING MECHAN. AUX. CONDUCTOR:
SCREW TERMINALS



Figure similar

product brandname	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S6
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN 60947-1	690 V
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Shock resistance	
• at rectangular impulse	
— at AC	8,5g / 5 ms, 4,2g / 10 ms

— at DC	8,5g / 5 ms, 4,2g / 10 ms
• with sine pulse	
— at AC	13,4g / 5 ms, 6,5g / 10 ms
— at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
• of 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
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
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	185 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	185 A
— up to 690 V at ambient temperature 60 °C rated value	160 A
— up to 1000 V at ambient temperature 40 °C rated value	90 A
— up to 1000 V at ambient temperature 60 °C rated value	90 A
• at AC-3	
— at 400 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	70 mm ²
• at 40 °C minimum permissible	95 mm ²
Operating current for approx. 200000 operating cycles at AC-4	

<ul style="list-style-type: none"> • at 400 V rated value • at 690 V rated value 	<p>68 A</p> <p>57 A</p>
<p>Operating current</p> <ul style="list-style-type: none"> • at 1 current path at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value • with 3 current paths in series at DC-1 <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>160 A</p> <p>160 A</p> <p>160 A</p>
<p>Operating current</p> <ul style="list-style-type: none"> • at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V rated value — at 24 V rated value • with 3 current paths in series 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>2.5 A</p> <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 400 V rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value • at AC-2 at 400 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 — at 1000 V rated value 	<p>60 kW</p> <p>105 kW</p> <p>181 kW</p> <p>181 kW</p> <p>148 W</p> <p>84 kW</p> <p>50 kW</p> <p>75 kW</p> <p>105 kW</p> <p>146 kW</p> <p>90 W</p>
<p>Operating power for approx. 200000 operating cycles at AC-4</p> <ul style="list-style-type: none"> • at 400 V rated value • at 690 V rated value 	<p>38 kW</p> <p>55 kW</p>
<p>Thermal short-time current limited to 10 s</p>	<p>1 300 A</p>

Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	9 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	130 1/h

Control circuit/ Control

Type of voltage of the control supply voltage	AC/DC
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Closing delay	
• at AC	20 ... 95 ms
• at DC	20 ... 95 ms
Opening delay	
• at AC	40 ... 60 ms
• at DC	40 ... 60 ms
Arcing time	10 ... 15 ms

Auxiliary circuit

Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
Operating current at DC-12	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A

UL/CSA ratings

Contact rating of auxiliary contacts according to UL	A600 / Q600
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Short-circuit protection

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 coordination 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
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Installation/ mounting/ dimensions

Mounting type	screw fixing
<ul style="list-style-type: none">• Side-by-side mounting	Yes
Height	172 mm
Width	120 mm
Depth	170 mm
Required spacing	
<ul style="list-style-type: none">• for grounded parts<ul style="list-style-type: none">— at the side	10 mm

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-sections	
<ul style="list-style-type: none">• at AWG conductors for main contacts	4 ... 250 kcmil
Type of connectable conductor cross-sections	
<ul style="list-style-type: none">• for auxiliary contacts<ul style="list-style-type: none">— solid— finely stranded with core end processing• at AWG conductors for auxiliary contacts	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

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates
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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)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1055-6LA06>

Cax online generator

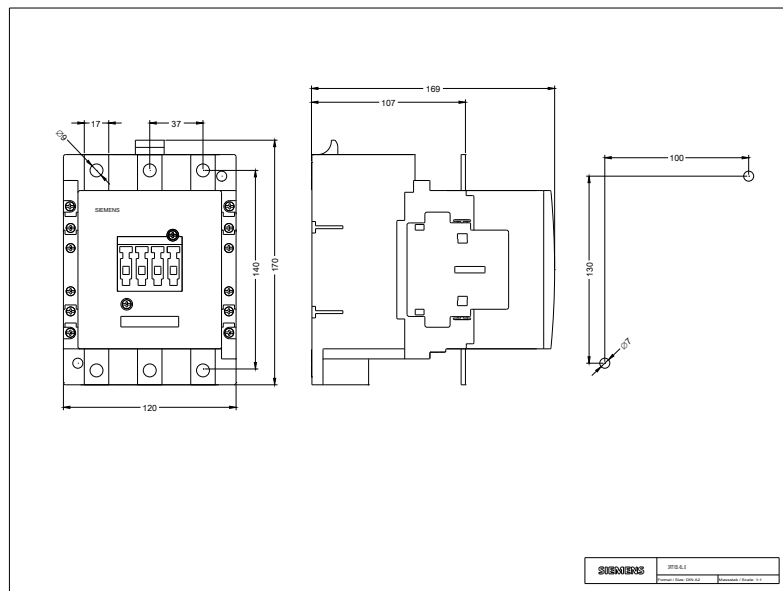
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6LA06>

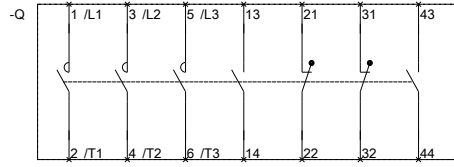
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6LA06>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-6LA06&lang=en





3RT106.-L.6.01.4_IEC.DXF
3RT107.-L.6.01.4_IEC.DXF

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