

CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC OPERATION
 UC 23...26V AUXIL. CONTACTS 2NO+2NC LATERAL,
 PERMANENT. JOINTED 3-POLE, SIZE S6 BAR CONNECTIONS
 FOR SUVA APPLICATIONS

product brand name	SIRIUS
Product designation	power contactor
General technical data:	
Size of contactor	S6
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
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 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
— at ambient temperature 60 °C rated value	160 A
• at AC-3	
— at 400 V rated value	150 A
— at 690 V rated value	150 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	
• at 400 V rated value	68 A
• at 690 V rated value	57 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	18 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
Operating current	

<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>
Operating power	
<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 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 	<p>60 kW</p> <p>105 kW</p> <p>181 kW</p> <p>181 kW</p> <p>84 kW</p> <p>50 kW</p> <p>84 kW</p> <p>105 kW</p> <p>146 kW</p>
Operating power 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>38 kW</p> <p>55 kW</p>
Thermal short-time current limited to 10 s	1 300 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	9 W
No-load switching frequency	
<ul style="list-style-type: none"> • at AC • at DC 	<p>2 000 1/h</p> <p>2 000 1/h</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>
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value 	<p>23 ... 26 V</p> <p>23 ... 26 V</p>
Control supply voltage at DC	

• rated value	23 ... 26 V
• rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.8 ... 1.1
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 ... 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	300 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of magnet coil at AC	5.8 V·A
Inductive power factor with the holding power of the coil	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
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
- at 220 V rated value

1 A
0.3 A

UL/CSA ratings:

Contact rating of auxiliary contacts according to UL A600 / Q600

Short-circuit protection

Design of the fuse link

- 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
- for auxiliary and control current circuit

screw-type terminals
screw-type terminals

Type of connectable conductor cross-sections

- at AWG conductors for main contacts

4 ... 250 kcmil

Type of connectable conductor cross-sections

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

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)
2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
--------------------------	---------------------------------------	---------------------------	-------------------



[Baumusterbescheinigung](#)



[spezielle Prüfbescheinigung](#)

Test Certificates	Shipping Approval	other
-------------------	-------------------	-------

[sonstig](#)



GL



RMRS

[Umweltbestätigung](#)

other

[sonstig](#)

[Bestätigungen](#)

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

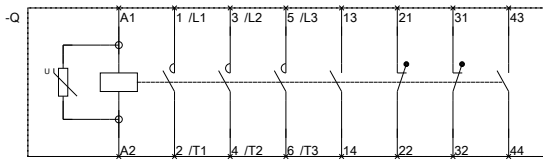
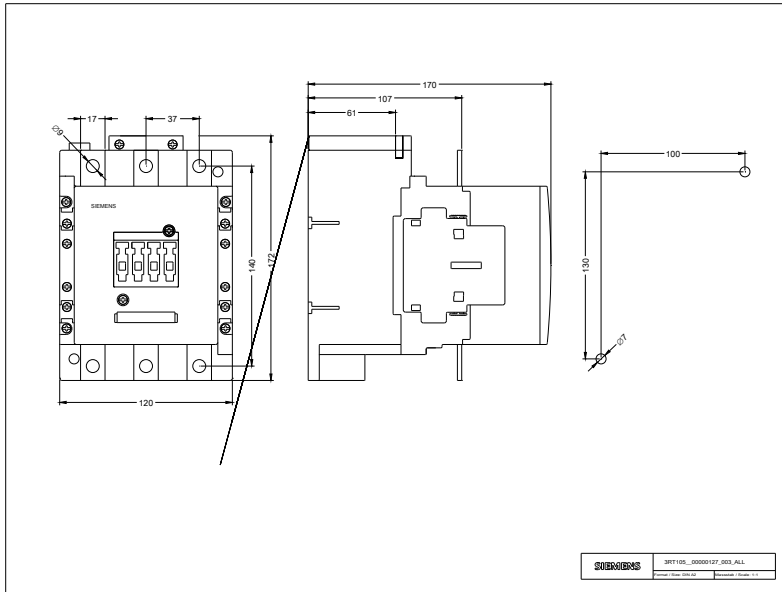
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10556AB363PA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10556AB363PA0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10556AB363PA0&lang=en



last modified:

16.12.2015

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