



Power contactor, AC-3 65 A, 30 kW / 400 V 24 V DC, 3-pole, Size S3,
Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2
Preferred successor type is >>3RT2037-1KB40<<

product brand name

SIRIUS

product designation

power contactor

General technical data

size of contactor

S3

insulation voltage rated value

1 000 V

degree of pollution

3

surge voltage resistance rated value

6 kV

maximum permissible voltage for safe isolation between
coil and main contacts according to EN 60947-1

690 V

protection class IP

- on the front
- of the terminal

IP20; IP20 on the front with cover / box terminal
IP00

shock resistance at rectangular impulse

- at DC

6,8g / 5 ms, 4g / 10 ms

shock resistance with sine pulse

- at DC

10,6g / 5 ms, 6,2g / 10 ms

mechanical service life (switching cycles)

- of contactor typical
- of the contactor with added electronically optimized
auxiliary switch block typical
- of the contactor with added auxiliary switch block
typical

10 000 000

5 000 000

10 000 000

reference code according to IEC 81346-2

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Substance Prohibitation (Date)

05/01/2012

Ambient conditions

installation altitude at height above sea level maximum

2 000 m

ambient temperature

- during operation
- during storage

-25 ... +60 °C

-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

operational current

- at AC-1 at 400 V at ambient temperature 40 °C
rated value

100 A

- at AC-1

— up to 690 V at ambient temperature 40 °C
rated value

100 A

— up to 690 V at ambient temperature 60 °C
rated value

90 A

— up to 1000 V at ambient temperature 40 °C
rated value

50 A

— up to 1000 V at ambient temperature 60 °C rated value	40 A
• at AC-3 — at 400 V rated value — at 690 V rated value — at 1000 V rated value • at AC-4 at 400 V rated value	65 A 47 A 25 A 55 A
connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible • at 40 °C minimum permissible	35 mm ² 35 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value • at 690 V rated value	28 A 20 A
operating power	
• at AC-1 — 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 — 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	34 kW 59 kW 102 kW 102 kW 66 W 30 kW 18.5 kW 30 kW 37 kW 45 kW 30 W
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value • at 690 V rated value	15.1 kW 18.6 kW
thermal short-time current limited to 10 s	600 A
no-load switching frequency	
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum	1 000 1/h 400 1/h 1 000 1/h 300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value • full-scale value	0.8 1.1
closing power of magnet coil at DC	15 W
holding power of magnet coil at DC	15 W
closing delay	
• at DC	90 ... 230 ms
opening delay	
• at DC	14 ... 20 ms
arcing time	10 ... 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value • at 400 V rated value	6 A 3 A

operational 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
operational 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
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

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	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gL/gG: 250 A
— with type of assignment 2 required	fuse gL/gG: 125 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions

fastening method	screw and snap-on mounting onto 35 mm and 75 mm DIN rail
• side-by-side mounting	Yes
height	146 mm
width	70 mm
depth	152 mm
required spacing for grounded parts at the side	6 mm

Connections/ Terminals

type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (2.5 ... 16 mm ²)
— stranded	2x (10 ... 50 mm ²)
— solid or stranded	2x (2.5 ... 16 mm ²)
— finely stranded with core end processing	2x (2.5 ... 35 mm ²)
— finely stranded without core end processing	2x (10 ... 35 mm ²)
• at AWG cables for main contacts	2x (10 ... 1/0)
type of connectable conductor cross-sections	
• 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)
• at AWG cables for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals

General Product Approval	EMC
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[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)



Marine / Shipping	other	Railway
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1044-1BB40>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1044-1BB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1BB40>

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

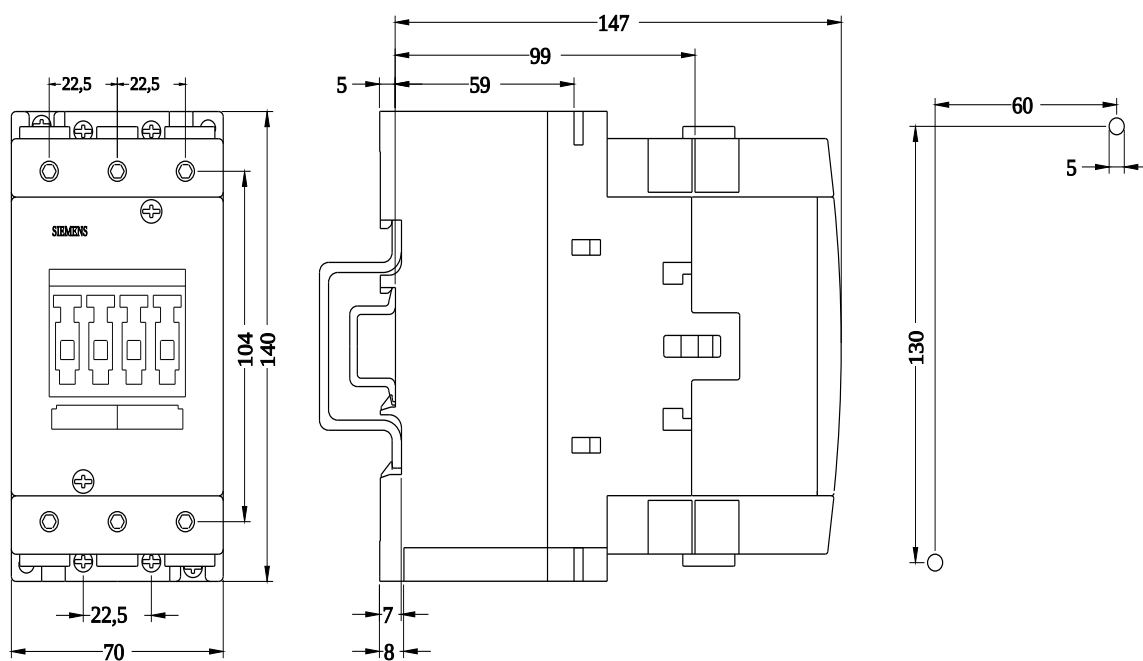
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1044-1BB40&lang=en

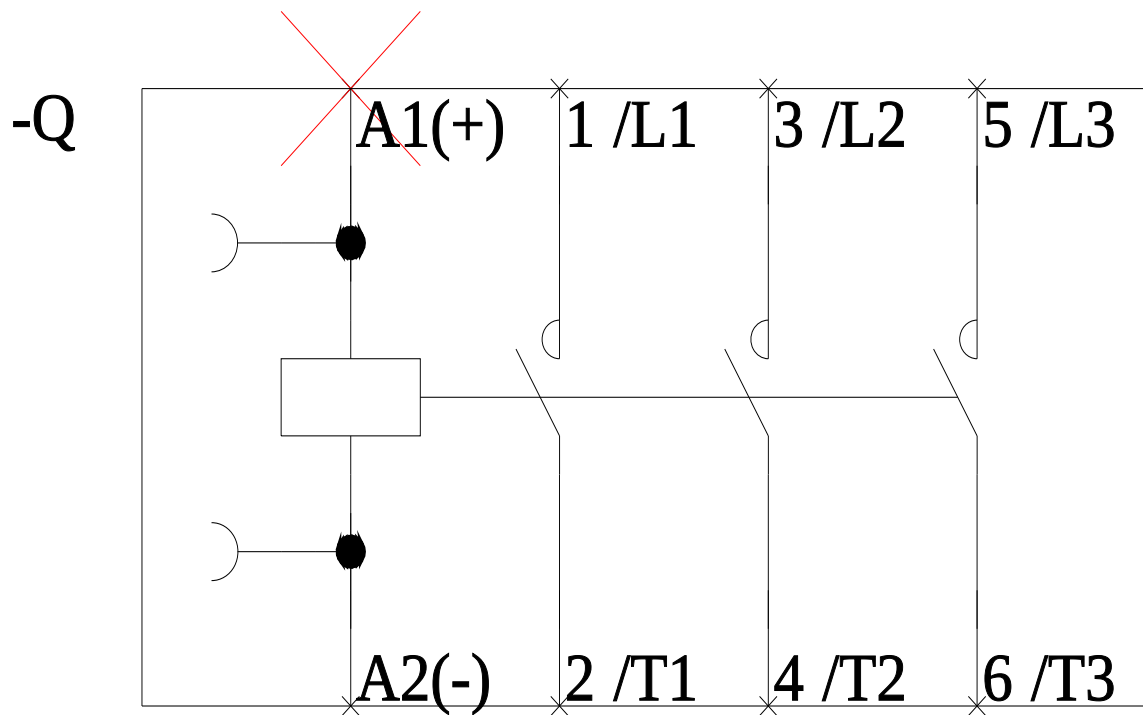
Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1BB40/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1044-1BB40&objecttype=14&gridview=view1>





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