



Power contactor, AC-3 50 A, 22 kW / 400 V 24 V DC, 3-pole, Size S2, screw terminal ! Phased-out product! Successor is SIRIUS 3RT2 Preferred successor type is >>3RT2036-1KB40<<

product brand name

SIRIUS

product designation

power contactor

General technical data

size of contactor

S2

insulation voltage rated value

690 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

400 V

protection class IP

- on the front
- of the terminal

IP20

IP00

shock resistance at rectangular impulse

- at DC

10g / 5 ms, 5g / 10 ms

shock resistance with sine pulse

- at DC

15g / 5 ms, 8g / 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

Q

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
- at AC-1
 - 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
 - at 400 V rated value

60 A

60 A

55 A

50 A































— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	16 mm ²
• at 40 °C minimum permissible	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	12.6 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	22 kW
— at 400 V rated value	38 kW
— at 690 V rated value	66 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12.6 kW
• at 690 V rated value	11.4 kW
thermal short-time current limited to 10 s	400 A
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	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	0.8
• full-scale value	1.1
closing power of magnet coil at DC	13.3 W
holding power of magnet coil at DC	13.3 W
closing delay	
• at DC	60 ... 100 ms
opening delay	
• at DC	20 ... 25 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	6 A
• at 400 V rated value	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

<ul style="list-style-type: none">• at 110 V rated value• at 220 V rated value contact reliability of auxiliary contacts	1 A 0.3 A 1 faulty switching per 100 million (17 V, 1 mA)												
UL/CSA ratings													
contact rating of auxiliary contacts according to UL	A600 / Q600												
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: 160 A fuse gL/gG: 80 A fuse gL/gG: 10 A												
Installation/ mounting/ dimensions													
fastening method <ul style="list-style-type: none">• side-by-side mounting height width depth required spacing for grounded parts at the side	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 130 mm 6 mm												
Connections/ Terminals													
type of electrical connection <ul style="list-style-type: none">• for main current circuit• for auxiliary and control circuit type of connectable conductor cross-sections <ul style="list-style-type: none">• for main contacts<ul style="list-style-type: none">— solid— stranded— solid or stranded— finely stranded with core end processing— finely stranded without core end processing• at AWG cables for main contacts 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 cables for auxiliary contacts	screw-type terminals screw-type terminals 2x (0.75 ... 16 mm²) 2x (0.75 ... 25 mm²) 2x (0.75 ... 16 mm²) 2x (0.75 ... 16 mm²) 2x (0.75 ... 16 mm²) 2x (18 ... 2) 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													
<table><tr><td colspan="3">General Product Approval</td><td colspan="3">EMC</td></tr><tr><td></td><td></td><td>Confirmation</td><td></td><td></td><td></td></tr></table>		General Product Approval			EMC					Confirmation			
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<table><tr><td colspan="2">Declaration of Conformity</td><td colspan="4">Test Certificates</td></tr><tr><td></td><td></td><td>Special Test Certificate</td><td>Miscellaneous</td><td>Type Test Certificates/Test Report</td><td>Miscellaneous</td></tr></table>		Declaration of Conformity		Test Certificates						Special Test Certificate	Miscellaneous	Type Test Certificates/Test Report	Miscellaneous
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[Special Test Certificate](#)

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=3RT1036-1BB40>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1036-1BB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1BB40>

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

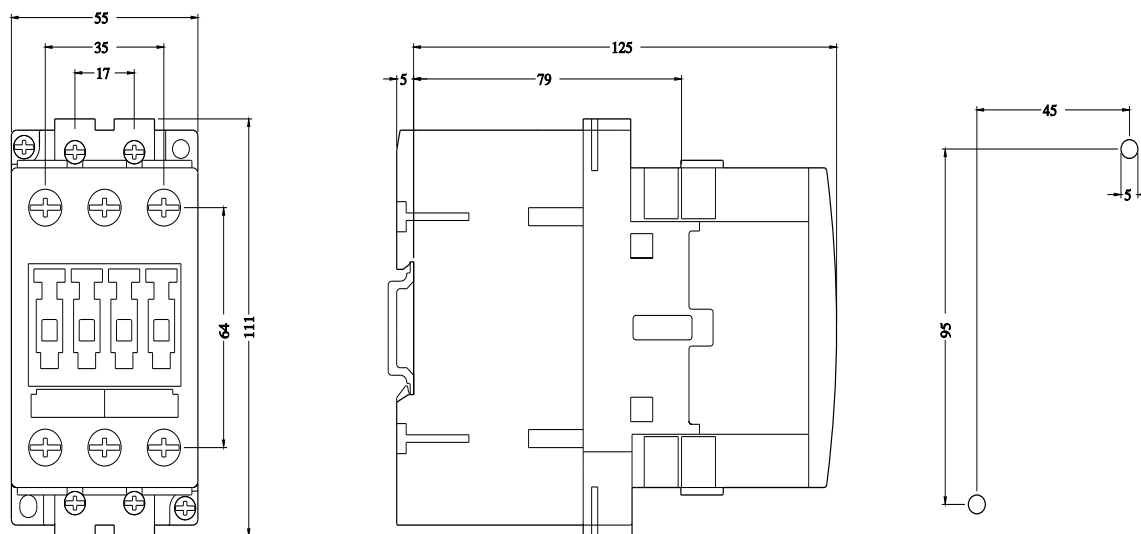
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1036-1BB40&lang=en

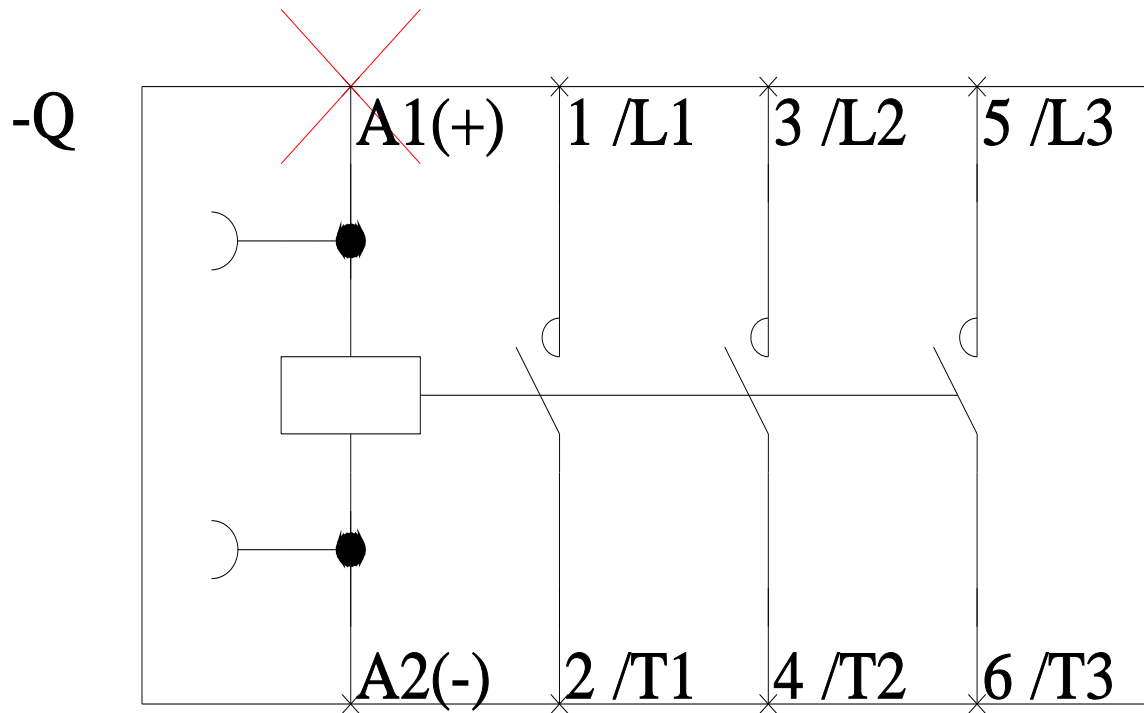
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1BB40/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1036-1BB40&objecttype=14&gridview=view1>





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12/1/2021 [🔗](#)