



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	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	100 A 100 A 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	65 A
— at 690 V rated value	47 A
— at 1000 V rated value	25 A
• at AC-4 at 400 V rated value	55 A
connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	35 mm ²
• at 40 °C minimum permissible	35 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	20 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	34 kW
— at 400 V rated value	59 kW
— at 690 V rated value	102 kW
— at 690 V at 60 °C rated value	102 kW
— at 1000 V at 60 °C rated value	66 W
• at AC-2 at 400 V rated value	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
— at 1000 V rated value	30 W
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	15.1 kW
• at 690 V rated value	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	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 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	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	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		
• 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		
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 standard mounting 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			
<table> <tr> <td>General Product Approval</td><td>EMC</td></tr> </table>		General Product Approval	EMC
General Product Approval	EMC		



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping

Marine / Shipping

other

Railway



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

[Special Test Certific-
ate](#)

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, ...)

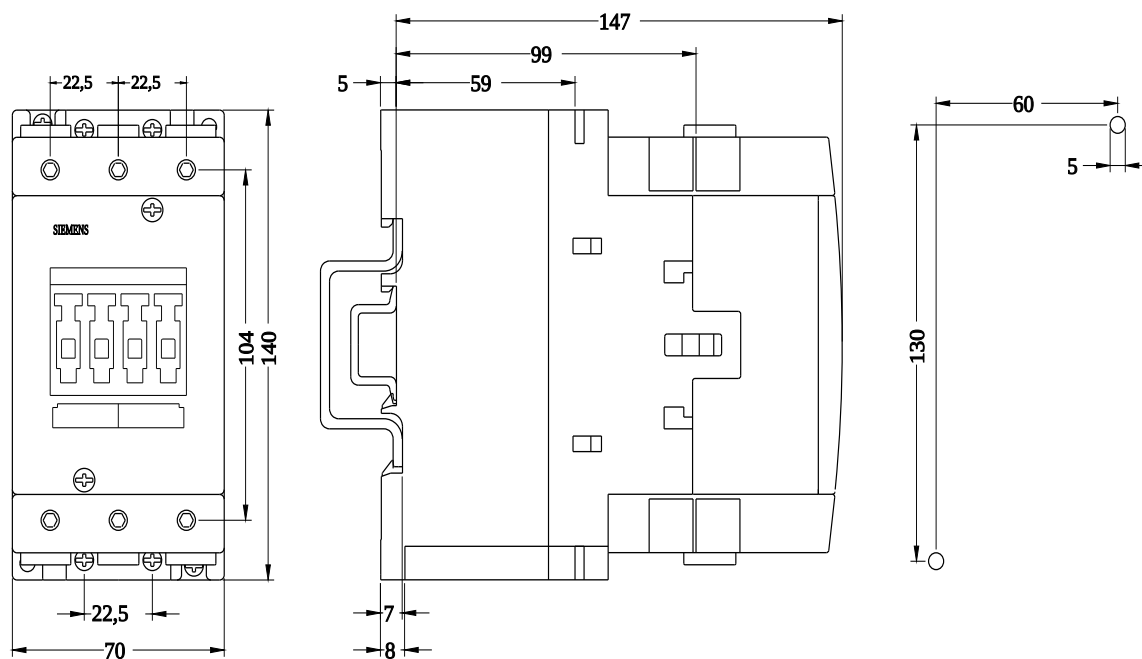
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1044-1BB40&lang=en

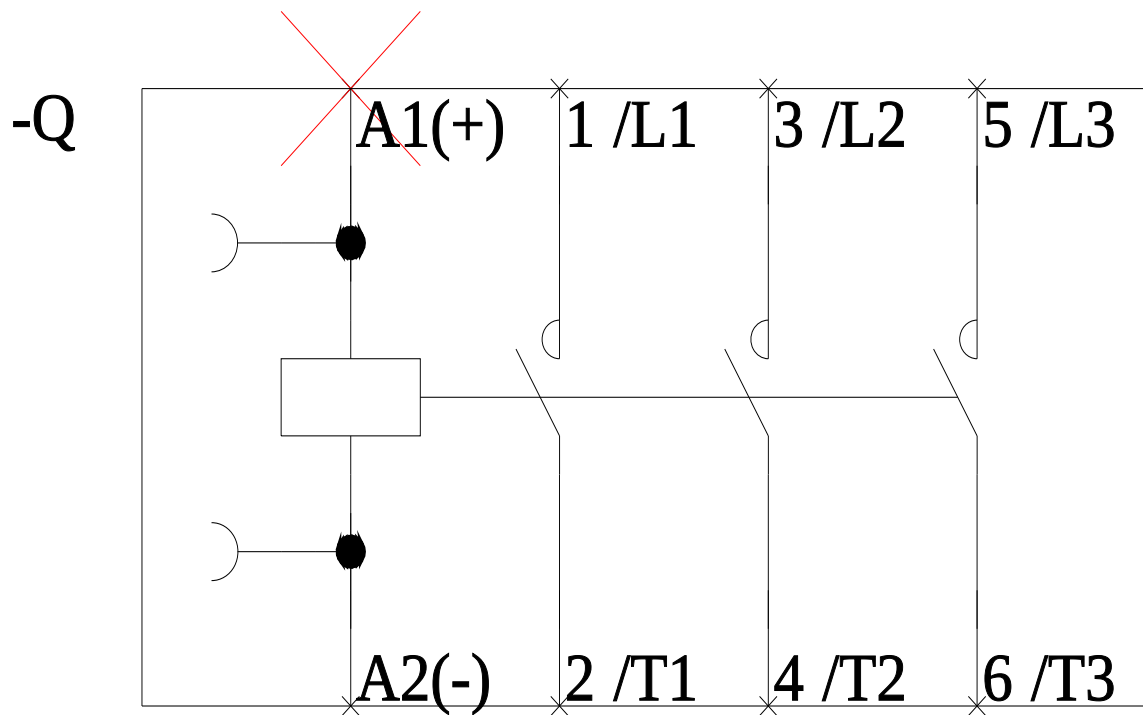
Characteristic: Tripping characteristics, I^2t , Let-through current

<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>





last modified:

12/1/2021 [🔗](#)