SIEMENS

Data sheet 3RT1034-3AU00

Power contactor, AC-3 32 A, 15 kW / 400 V 240 V AC, 50 Hz, 3-pole, Size S2, Spring-type terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2



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 acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	10g / 5 ms, 5g / 10 ms
Shock resistance with sine pulse	
• at AC	15g / 5 ms, 8g / 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
Reference code acc. to DIN EN 81346-2	Q

block typical	
Reference code acc. to DIN EN 81346-2	Q
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	50 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
 up to 690 V at ambient temperature 60 °C rated value 	45 A
• at AC-3	
— at 400 V rated value	32 A
— at 690 V rated value	20 A
• at AC-4 at 400 V rated value	29 A
Connectable conductor cross-section in main circuit	
at AC-1	
 at 60 °C minimum permissible 	10 mm²
 at 40 °C minimum permissible 	16 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	15.6 A
• at 690 V rated value	11 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	45 A
— at 110 V rated value	4.5 A
with 2 current paths in series at DC-1	
— at 24 V rated value	45 A

— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	45 A
— at 110 V rated value	45 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	45 A
— at 110 V rated value	25 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	45 A
— at 110 V rated value	45 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	18 kW
— at 400 V rated value	31 kW
— at 690 V rated value	54 kW
— at 690 V at 60 °C rated value	54 kW
• at AC-2 at 400 V rated value	15 kW
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	8.2 kW
at 690 V rated value	10 kW
Thermal short-time current limited to 10 s	320 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.8 W
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	

Control supply voltage at AC • at 50 Hz rated value Control supply voltage frequency • 1 rated value Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz Apparent pick-up power of magnet coil at AC Inductive power factor with closing power of the coil Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the coil Closing delay • at AC Opening delay • at AC	AC 240 V 50 Hz 0.8 1.1 104 V·A 0.78 9.7 V·A 0.42 11 30 ms 7 20 ms 10 15 ms
at 50 Hz rated value Control supply voltage frequency 1 rated value Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz Apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing delay at AC Opening delay at AC Arcing time	50 Hz 0.8 1.1 104 V·A 0.78 9.7 V·A 0.42 11 30 ms 7 20 ms
Control supply voltage frequency 1 rated value Deparating range factor control supply voltage rated value of magnet coil at AC 1 at 50 Hz Apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil inductive power factor with the holding power of the coil inductiv	50 Hz 0.8 1.1 104 V·A 0.78 9.7 V·A 0.42 11 30 ms 7 20 ms
1 rated value Deparating range factor control supply voltage rated value of magnet coil at AC at 50 Hz Apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing delay at AC Depening delay at AC Arcing time	0.8 1.1 104 V·A 0.78 9.7 V·A 0.42 11 30 ms
Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz Apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil inductive power factor with the holding power of the coil	0.8 1.1 104 V·A 0.78 9.7 V·A 0.42 11 30 ms
value of magnet coil at AC • at 50 Hz Apparent pick-up power of magnet coil at AC Inductive power factor with closing power of the coil Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the coil Closing delay • at AC Opening delay • at AC Arcing time	104 V·A 0.78 9.7 V·A 0.42 11 30 ms
Apparent pick-up power of magnet coil at AC Inductive power factor with closing power of the coil Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the coil Closing delay • at AC Opening delay • at AC Arcing time	104 V·A 0.78 9.7 V·A 0.42 11 30 ms
Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the coil Closing delay • at AC Dening delay • at AC Arcing time	0.78 9.7 V·A 0.42 11 30 ms 7 20 ms
Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the coil Closing delay • at AC Opening delay • at AC Arcing time	9.7 V·A 0.42 11 30 ms 7 20 ms
enductive power factor with the holding power of the coil Closing delay • at AC Opening delay • at AC Arcing time	0.42 11 30 ms 7 20 ms
Closing delay • at AC Opening delay • at AC Arcing time	11 30 ms 7 20 ms
at AC Dening delay at AC Arcing time	7 20 ms
Opening delay • at AC Arcing time	7 20 ms
• at AC Arcing time	
Arcing time	
•	10 15 ms
Iviliany circuit	
axillary circuit	
Number of NC contacts for auxiliary contacts	
instantaneous contact	0
Number of NO contacts for auxiliary contacts	
• instantaneous contact	0
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
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
L/CSA ratings	
	A600 / Q600
nort-circuit protection	
Design of the fuse link	

• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 125 A fuse gL/gG: 63 A fuse gL/gG: 10 A

Installation/ mounting/ dimensions	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
 Side-by-side mounting 	Yes
Height	112 mm
Width	55 mm
Depth	115 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 current circuit 	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.75 16 mm²)
— stranded	2x (0.75 25 mm²)
 single or multi-stranded 	2x (0,75 16 mm²)
 finely stranded with core end processing 	2x (0.75 16 mm²)
 finely stranded without core end processing 	2x (0.75 16 mm²)
 at AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 2.5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
 finely stranded without core end processing 	2x (0.25 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (24 14)

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity









Type Examination Certificate



Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous







Marine / Shipping

other





Confirmation

Miscellaneous

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=3RT1034-3AU00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1034-3AU00

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

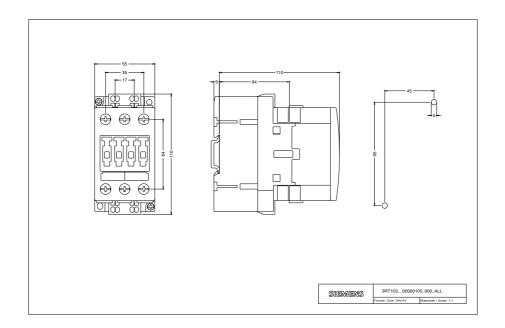
https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-3AU00

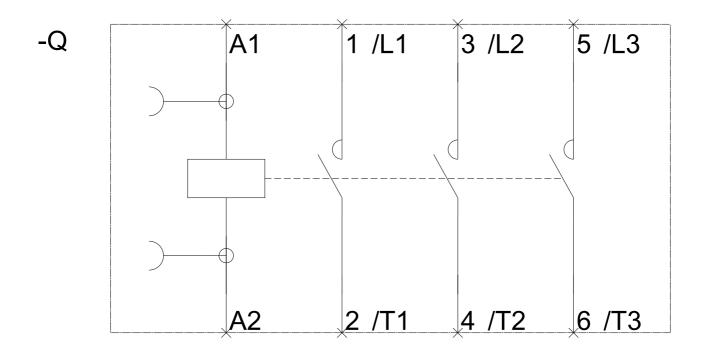
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1034-3AU00&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-3AU00/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1034-3AU00&objecttype=14&gridview=view1





last modified: 12/13/2018