Data sheet

Power contactor, AC-3 32 A, 15 kW / 400 V 230 V AC, 50 Hz, 3-pole, Size S2, Screw terminal Upright mounting position !!! Phased-out product !!! Successor is SIRIUS 3RT2 Preferred successor type is



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 60947-1 	400 V	
• protection class IP on the front	IP20	
 Protection class IP 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
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	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	000.17
● at 50 Hz rated value	230 V

control supply voltage frequency			
• 1 rated value	50 Hz		
Operating range factor control supply voltage rated			
value of magnet coil at AC			
● at 50 Hz	0.8 1.1		
Apparent pick-up power of magnet coil at AC	104 V·A		
Inductive power factor with closing power of the coil	0.78		
Apparent holding power of magnet coil at AC	9.7 V·A		
Inductive power factor with the holding power of the coil	0.42		
Closing delay			
• at AC	11 30 ms		
Opening delay			
• at AC	7 20 ms		
Arcing time	10 15 ms		
Auxiliary circuit			
Number of NC contacts for auxiliary contacts	2		
• instantaneous contact	0		
Number of NO contacts for auxiliary contacts	2		
• 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	3.4		
• at 60 V rated value	6 A		
at 100 V rated value at 110 V rated value	3 A		
	1 A		
at 220 V rated value 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 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: 125 A		
 — with type of assignment 2 required 	fuse gL/gG: 63 A		

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 10 A

founting type	screw and snap-on mounting onto 35 mm standard mounting rai		
	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		
onnections/ Terminals			
 Type of electrical connection for main current circuit 	screw-type terminals		
 Type of electrical connection for auxiliary and control current circuit 	screw-type 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	or main contacts 2x (18 2)		
Type of connectable conductor cross-sections			
• for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
finally atranded with core and processing	stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

Certificates/ approvals

• at AWG conductors for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination Certificate

Declaration of	Conformity	Test Certificates	•		Marine / Ship- ping
CE	Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous	ELICAN BOTTON

Marine / Shipping

other

ABS



EG-Konf.









Confirmation

other	Railway
-------	---------

Miscellaneous

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=3RT1034-1AP00-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1034-1AP00-1AA0

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

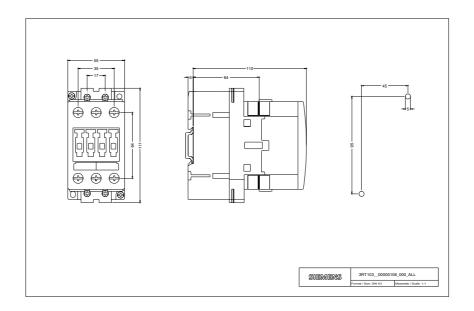
https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-1AP00-1AA

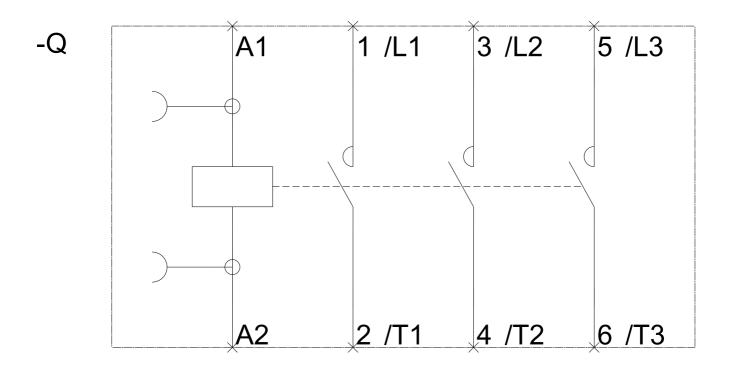
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1034-1AP00-1AA0\&lang=en} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1034-1AP00-1AA0\&lang=en} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx.com/bildd$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-1AP00-1AA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1034-1AP00-1AA0&objecttype=14&gridview=view1





last modified: 08/27/2020