SIEMENS

Data sheet

3RT2015-2AF04



Power contactor, AC-3 7 A, 3 kW / 400 V 2 NO + 2 NC, 110 V AC 50 / 60 Hz, 3-pole, Size S00, Spring-type terminal Removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current at AC in hot operating state	1.2 W
• per pole	0.4 W
power loss [W] for rated value of the current without load current share typical	4.2 W
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
operating voltage at AC-3 rated value maximum	690 V

-
18 A
18 A
16 A
7 A
6 A
4.9 A
6.5 A
15.8 A
5.8 A
4 A
4 A
3.8 A
3.6 A
2.7 A
2.7 A
2.7 A 2.5 A
2.4 A
2.5 mm ²
2.6 A
1.8 A
15 A
1.5 A
0.6 A
0.42 A
0.42 A
15 A
8.4 A
1.2 A
0.6 A
0.5 A
45.4
15 A
15 A
15 A
15 A 0.9 A
15 A
15 A 0.9 A

— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
 at AC-2 at 400 V rated value 	3 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	1.5 kV·A
 up to 400 V for current peak value n=20 rated value 	2.7 kV·A
 up to 500 V for current peak value n=20 rated value 	3.3 kV·A
 up to 690 V for current peak value n=20 rated value 	4.3 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1 kV·A
 up to 400 V for current peak value n=30 rated value 	1.8 kV·A
 up to 500 V for current peak value n=30 rated value 	2.2 kV·A
 up to 690 V for current peak value n=30 rated value 	2.9 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 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	
• at 50 Hz rated value	110 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 V·A
• at 60 Hz	24.3 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.8

100.11	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	3.3 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
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
• at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 110 V rated value at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 A
at 24 V rated value	2 A
at 40 V rated value	2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
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 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 60kA)
with type of assignment 2 required	80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	121 mm
required spacing	
 with side-by-side mounting — forwards 	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
– downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
 of magnet coil 	Spring-type terminals
turne of compositable conductor cross sections	
type of connectable conductor cross-sections	
for main contacts	
	2x (0.5 4 mm²)
for main contacts	2x (0.5 4 mm²) 2x (0,5 4 mm²)
• for main contacts — solid	
 for main contacts — solid — solid or stranded 	2x (0,5 4 mm ²)
 for main contacts — solid — solid or stranded — finely stranded with core end processing 	2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²)
 for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 	2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12)
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Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10	Machinery Type Examination Certificate Marine / Shipping Marine / Shipping	EG-Konf.	UK Declaratio		Type Test Certific-		ABS	
https://www.siemens.com/ic10	Machinery Type Examination Certificate Marine / Shipping Marine / Shipping Certificate	EG-Konf.	UK Declaratio Conformity	¥ 	Type Test Certific-		ABS	
	Machinery Type Examination Certificate Marine / Shipping Marine / Shipping Confirmation Further information	EG-Konf.	UK Declaratio Conformity	<u>х</u> 2п	Type Test Certific-		ABS	

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AF04

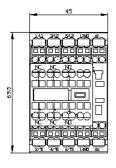
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2AF04&lang=en

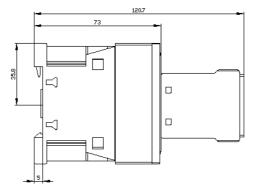
Characteristic: Tripping characteristics, I²t, Let-through current

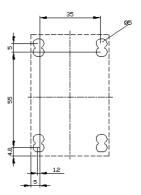
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AF04/char

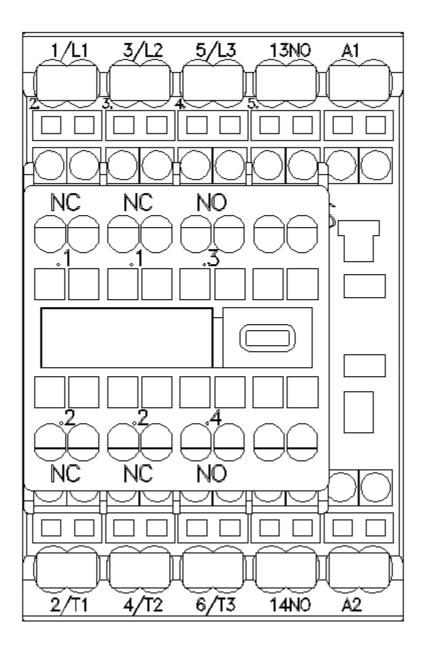
Further characteristics (e.g. electrical endurance, switching frequency)

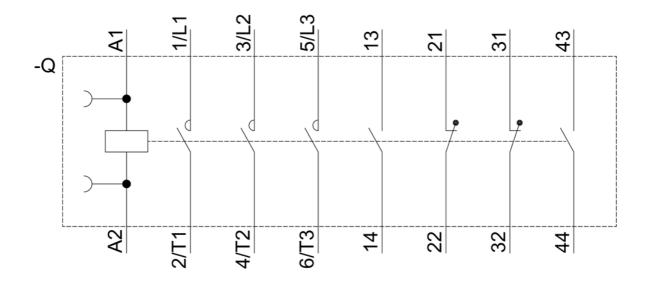
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AF04&objecttype=14&gridview=view1











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