SIEMENS

Data sheet

3RT2015-2WB42



power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 0.85-1.85* US, with varistor integrated, 3-pole, size S00, spring-type terminal not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling 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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	1.6 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
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 according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

operating voltage	220.)/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	18 A
• at AC-1 at 400 V at ambient temperature 40 °C rated value	IO A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
 at AC-5a up to 690 V rated value 	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	4 A
 — up to 400 V for current peak value n=20 rated value 	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
 — up to 690 V for current peak value n=20 rated value 	3.6 A
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	2.7 A
 — up to 400 V for current peak value n=30 rated value 	2.7 A
 — up to 500 V for current peak value n=30 rated value 	2.5 A
 up to 690 V for current peak value n=30 rated value 	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A

— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 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-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
• at AC-3e	
— 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 kVA
 up to 400 V for current peak value n=20 rated value 	2.7 kVA
 up to 500 V for current peak value n=20 rated value 	3.3 kVA
 up to 690 V for current peak value n=20 rated value 	4.3 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1 kVA
 up to 400 V for current peak value n=30 rated value 	1.8 kVA
 up to 500 V for current peak value n=30 rated value 	2.2 kVA
 up to 690 V for current peak value n=30 rated value 	2.9 kVA
short-time withstand current in cold operating state	
up to 40 °C	120 A: Loo minimum groop postion and to AC 4 rate durates
 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
 limited 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	10.000.1/b
at DC	10 000 1/h
operating frequency • at AC-1 maximum	1,000,1/b
	1 000 1/h
at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
at AC-4 maximum	250 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	0.85
	0.00

• full-scale value	1.85
	with varistor
design of the surge suppressor closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	1.0 VV
• at DC	25 120 ms
opening delay	23 120 113
• at DC	5 20 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	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
 at 500 V rated value 	2 A
 at 690 V rated value 	1 A
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 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	10 A
at 48 V rated value	2 A
at 60 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	
tor single-phase AC motor — at 110/120 V rated value	0.25 bp
— at 110/120 V rated value — at 230 V rated value	0.25 hp 0.75 hp
	0.70 hp
• for 3-phase AC motor	1.5 bp
- 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, 80kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	90. 10 M (000 V, 1 M)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted

fastening method exew and srap-on mounting onto 35 mm standard mounting rail eccording to DN EN 60715 width 70 mm width 45 mm depth 121 mm required spacing 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - add or shanded 2x (0.54 mm ²) or magnet coil		forward and backward by +/- 22.5° on vertical mounting surface		
excerding to DIN EN 60715 height 70 nm width 45 mm depth 121 mm required spacing 121 mm - forwards 10 mm - downwards 10 m	fastening method	· · · · ·		
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depth 121 mm required spacing 10 mm - downards 10 mm - downwards 10 mm - downards 10 mm - downards 10 mm - for do				
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- downwards 0 mm - at the side 0 mm - for grounded parts 00 mm - for wards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - for wards 10 mm - upwards 10 mm - downwards print participart - for auxiliary contacts spring-type terminals <td></td> <td></td>				
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• for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes	AWG number as coded connectable conductor cross			
Safety related data product function • mirror contact according to IEC 60947-4-1 Yes		20 12		
product function • mirror contact according to IEC 60947-4-1 Yes	 for auxiliary contacts 	20 12		
product function o mirror contact according to IEC 60947-4-1 Yes				
mirror contact according to IEC 60947-4-1 Yes				
	-	Yes		
		1 000 000		

proportion of dange	rous failures					
 with low deman 	d rate according to SN	31920	40 %			
-	nd rate according to SN		73 %			
failure rate [FIT] with I 31920	ow demand rate accord	ding to SN	100 FIT			
T1 value for proof test IEC 61508	t interval or service life	according to	20 у			
protection class IP o 60529	on the front according	to IEC	IP20			
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical conta	act from the front		
suitability for use						
 safety-related s 	witching OFF		Yes			
Certificates/ approval	S					
General Product Ap	proval					
S.	CCC CCC	<u>Confirmatio</u>		KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping	_					
ABS	BUREAU VERITAS		Lloyds Register us	PRS	RINA	
Marine / Shipping	other		Dangerous Good			
RMRS	<u>Confirmation</u>	VDE	<u>Transport Informa-</u> <u>tion</u>			
https://www.siemens.c Industry Mall (Online https://mall.industry.si Cax online generato http://support.automat Service&Support (M https://support.industr Image database (pro http://www.automation Characteristic: Tripp https://support.industr Further characteristi	e ordering system) emens.com/mall/en/en. r tion.siemens.com/WW// anuals, Certificates, C y.siemens.com/cs/ww/o duct images, 2D dime n.siemens.com/bilddb/c bing characteristics, I ² y.siemens.com/cs/ww/o ics (e.g. electrical end	CAXorder/defaul CAXorder/defaul Characteristics, en/ps/3RT2015-2 ension drawinge ax_de.aspx?mlft t, Let-through c en/ps/3RT2015-2 lurance, switchi	?mlfb=3RT2015-2WB42 t.aspx?lang=en&mlfb=3RT20 FAQs,) 2WB42 s, 3D models, device circuit p=3RT2015-2WB42⟨=en surrent 2WB42/char	diagrams, EPLAN ma		
3RT20152WB42				Subject to	change without notice	

7/8/2022