SIEMENS

Data sheet

3RT2017-2WB42



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NC, 24 V DC 0.85-1.85* US, with varistor plugged on, 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 	1.5 W		
 at AC in hot operating state per pole 	0.5 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	7.3g / 5 ms, 4.7g / 10 ms		
shock resistance with sine pulse			
• at DC	11,4g / 5 ms, 7,3g / 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	-
 operating voltage at AC-3 rated value maximum 	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C	22 A
rated value	
— up to 690 V at ambient temperature 60 °C	20 A
rated value • at AC-3	
 at AC-3 — at 400 V rated value 	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated 	7.2 A
value	
 — up to 400 V for current peak value n=20 rated value 	7.2 A
 — up to 500 V for current peak value n=20 rated value 	7.2 A
 up to 690 V for current peak value n=20 rated value 	6.7 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	4.8 A
 — up to 400 V for current peak value n=30 rated value 	4.8 A
 up to 500 V for current peak value n=30 rated value 	4.8 A
 — up to 690 V for current peak value n=30 rated value 	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating	
cycles at AC-4 • at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A

— at 440 V rated value	1.3 A			
— at 600 V rated value	1 A			
 at 1 current path at DC-3 at DC-5 				
— at 24 V rated value	20 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	20 A			
— at 110 V rated value	0.35 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	20 A			
— at 110 V rated value	20 A			
— at 220 V rated value	1.5 A			
— at 440 V rated value	0.2 A			
— at 600 V rated value	0.2 A			
operating power				
• at AC-3				
— at 230 V rated value	3 kW			
— at 400 V rated value	5.5 kW			
— at 500 V rated value	5.5 kW			
— at 690 V rated value	5.5 kW			
• at AC-3e				
— at 230 V rated value	3 kW			
— at 400 V rated value	5.5 kW			
— at 500 V rated value	5.5 kW			
— at 690 V rated value	5.5 kW			
operating power for approx. 200000 operating cycles				
at AC-4				
at 400 V rated value	2 kW			
at 690 V rated value	2.5 kW			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=20 rated value	2.8 kVA			
• up to 400 V for current peak value n=20 rated value	4.9 kVA			
• up to 500 V for current peak value n=20 rated value	6.2 kVA			
• up to 690 V for current peak value n=20 rated value	8 kVA			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=30 rated value	1.9 kVA			
• up to 400 V for current peak value n=30 rated value	3.3 kVA			
• up to 500 V for current peak value n=30 rated value	4.1 kVA			
up to 690 V for current peak value n=30 rated value	5.7 kVA			
short-time withstand current in cold operating state up to 40 °C				
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at DC	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-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			

• full-scale value	1.85			
design of the surge suppressor closing power of magnet coil at DC	with varistor			
holding power of magnet coil at DC	1.6 W			
closing delay	1.0 W			
• at DC	25 120 ms			
opening delay	25 120 1115			
• at DC	5 20 ms			
arcing time	_ 5 20 ms _ 10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
instantaneous contacts				
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 24 V rated value at 48 V rated value	2 A			
	2 A 2 A			
at 60 V rated value				
• 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	11 A			
at 600 V rated value	11 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.5 hp			
— at 230 V rated value	2 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	3 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	7.5 hp			
— at 575/600 V rated value	10 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: 50A (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				
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				
heigh 2 70 mm width 45 mm depth 121 mm required spacing 10 mm - dowards 10 mm - for an curret circut spring-loaded terminals	•	according to DIN EN 60715			
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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					
required spacing • with side by side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 10 mm - downwards 10 mm - for auxiliary and control circuit spring-baded terminals * of main current circuit spring-baded terminals • for auxiliary and control circuit spring-baded terminals • for auxiliary contorbol circuit					
• with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - for avising and control circuit spring-loaded terminals - for fraine current circuit spring-loaded te	•	121 mm			
- forwards 10 mm - upwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - for avoinded parts 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 20 mm - of adoctical connection Spring-baced terminals <td></td> <td></td>					
upwards 10 mm downwards 10 mm downwards 10 mm for grounded parts		10 mm			
- 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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type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil spring-loaded terminals spring-type terminals Spring-type	— at the side	6 mm			
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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	erous failures						
 with low deman 	nd rate according to SN	31920	40 %				
 with high dema 	nd rate according to SN	31920	73 %				
failure rate [FIT] with 31920	low demand rate accord	ding to SN	100 FIT				
T1 value for proof tes IEC 61508	t interval or service life	according to	20 у				
protection class IP (60529	on the front according	to IEC	IP20				
touch protection on	the front according to	IEC 60529	finger-safe, for	vertical cont	act from the front		
suitability for use							
 safety-related s 	switching OFF		Yes				
Certificates/ approval	s						
General Product Ap	oproval						
		<u>Confirmation</u>	²ⁿ	Ĩ)	KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		K	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping							
ABS			Ke	oydis gister uis	PRS	RINA	
Marine / Shipping	other		Danger	ous Good			
(CARA) RMRS	<u>Confirmation</u>	DE		<u>rt Informa-</u> ion			
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