SIEMENS

Data sheet

3RT2017-2QB42



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NC, 24 V DC 0.7-1.25* 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 	2.8 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	
at AC-3 rated value maximum	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	030 V
• 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 rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• 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 value 	7.2 A
 — 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 mm ²
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 24 V rated value	20 A 2.1 A
— at 220 V rated value	2.1 A 0.8 A
— at 440 V rated value	0.8 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 operating apparent power at AC-6a	8 kVA
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 up to 690 V for current peak value n=30 rated value 	4.1 kVA 5.7 kVA
short-time withstand current in cold operating state	5.7 KVA
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	0.7

• full-scale value	1.25		
design of the surge suppressor	with varistor		
closing power of magnet coil at DC	2.8 W		
holding power of magnet coil at DC	2.8 W		
closing delay	2.0 W		
• at DC	25 130 ms		
opening delay	25 150 1115		
• at DC	7 20 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
	1		
number of NC contacts for auxiliary contacts 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	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 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	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			
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: 20A (690V, 100kA), BS88: 20A (415V, 60kA)		
	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				
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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 	ind rate according to SN	31920	73 %			
failure rate [FIT] with low demand rate according to SN 31920			100 FIT			
T1 value for proof tes 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 con	tact from the front		
suitability for use						
 safety-related s 			Yes			
Certificates/ approval	ls					
General Product Ap	oproval					
	CCC	<u>Confirmatic</u>		KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	of Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	C C EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	B UREAU VERITAS		Lloyd's Register us	PRS	RINA	
Marine / Shipping	other		Dangerous Good			
(CARA) RMRS	<u>Confirmation</u>	DE	<u>Transport Informa-</u> <u>tion</u>			
https://www.siemens. Industry Mall (Onlin https://mall.industry.s Cax online generato http://support.automa Service&Support (M https://support.indust Image database (pro http://www.automatio Characteristic: Tripj https://support.indust	e ordering system) iemens.com/mall/en/en. or ition.siemens.com/WW// lanuals, Certificates, C ry.siemens.com/cs/ww/e oduct images, 2D dime n.siemens.com/bilddb/c ping characteristics, I ² ry.siemens.com/cs/ww/e	CAXorder/defaul CAXorder/defaul Characteristics, en/ps/3RT2017-2 ension drawinge ax_de.aspx?mlfl t, Let-through c en/ps/3RT2017-2	?mlfb=3RT2017-2QB42 tt.aspx?lang=en&mlfb=3RT2 FAQs,) 2QB42 s, 3D models, device circui b=3RT2017-2QB42⟨=er :urrent 2QB42/char	t diagrams, EPLAN mad	:ros,)	
Further characterist	tics (e.g. electrical end	lurance, switchi	i ng frequency) - <u>Search&mlfb=3RT2017-2Q</u> E	342&objecttype=14&grid\	<u>view=view1</u>	
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3RT20172QB42				Subject to c	hange without notice	

7/8/2022