SIEMENS

Data sheet

3RT2017-4AG62



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00

product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data S00 product extension S00 • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current - • at AC in hot operating state 1.5 W • at AC in hot operating state prope 0.5 W • without load current share typical 6.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kO • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value<		
product type designation 3RT2 General technical data size of contactor size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.5 W • 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 6.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 30 0000 000 • at AC	product brand name	SIRIUS
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reference code according to IEC 81346-2 Q		5 000 000
	 of the contactor with added auxiliary switch block typical 	10 000 000
Substance Prohibitance (Date) 10/01/2009	reference code according to IEC 81346-2	Q
	Substance Prohibitance (Date)	10/01/2009
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -25 +60 °C	during operation	-25 +60 °C
• during storage -55 +80 °C	 during storage 	-55 +80 °C
relative humidity minimum 10 %	relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum		95 %
Main circuit	Main circuit	
number of poles for main current circuit 3	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-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
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	20 A
value	
• 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 60 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 60 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 60 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 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 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 60 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-	0.0 KW
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 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-3e 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	100 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.81.1

• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	36 VA
• at 60 Hz	43 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	0.0 V/
at 50 Hz	0.24
• at 50 Hz	0.24
	0.25
closing delay	0
• at AC	9 35 ms
opening delay	
• at AC	4 15 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	1
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
	0.15 A
operational current at DC-13	10.4
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	A600 / Q600
Short-circuit protection	
design of the fuse link	
design of the fuse min	

 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 required	gG: 10 A (500 V, 1 kA)				
nstallation/ 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 DIN rail according to DIN EN 60715				
side-by-side mounting	Yes 58 mm				
height width	45 mm				
depth	73 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 	Ring cable lug connection				
 for auxiliary and control circuit 	ring terminal lug connection				
 at contactor for auxiliary contacts 	Ring cable lug connection				
of magnet coil	Ring cable lug connection				
Safety related data					
product function					
 mirror contact according to IEC 60947-4-1 	Yes				
B10 value with high demand rate according to SN 31920	1 000 000				
proportion of dangerous failures					
 with low demand rate according to SN 31920 	40 %				
 with high demand rate according to SN 31920 	73 %				
failure rate [FIT] with low demand rate according to SN 31920	100 FIT				
T1 value for proof test interval or service life according to IEC 61508	20 a				
protection class IP on the front according to IEC 60529 suitability for use	IP00				
safety-related switching OFF	Yes				
Certificates/ approvals					
General Product Approval					
Confirmation					
(SP) (CC)) (N) FAI				
CSA					
EMC Safety/Safety of Ma- Declaration of	f Conformity Test Certificates				
	f Conformity Test Certificates				

RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovd's Register urs	PRS	RINA	
Marine / Shipping	other		Railway	Environment		
Confirmation Vibration and Shock Environmental Confirmations RMRS Vibration and Shock Environmental Confirmations						
Further information						
https://press.siemens.c Siemens is working of Please contact your loo EAC relevant market (of Information on the pa	to exit the Russian market com/global/en/pressrelease/s on the renewal of the currer cal Siemens office on the sta other than the sanctioned EA ackaging v.siemens.com/cs/ww/en/view	iemens-wind-down-rus nt EAC certificates. tus of validity of the EA EU member states Rus	C certification if you intend	d to import or offer to supp	bly these products to an	

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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-4AG62&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-4AG62/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-4AG62&objecttype=14&gridview=view1











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