SIEMENS

Data sheet

3RT2015-4AP62



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00

product brand name SIRUS product brand designation Power contactor product type designation SRT2 Canazi technical data S00 product stension No • function module for communication No • auxiliary switch Yes power loss [V] for rated value of the current 0.6 W • 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 1.2 W insultation voitage 680 V • of main circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit rated value 81V • of auxiliary circuit rated value 61V V • of auxiliary circuit rated value 61V V • of auxiliary circuit rated value 500 V		
product type designation SRT2 Caneral technical data	product brand name	SIRIUS
General technical data S00 size of contactor S00 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.5 W • at AC in hot operating state 0.5 W • without load current share typical 1.2 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64V • of main circuit with degree of pollution 3 rated value 64V • of auxiliary circuit ated value 61V • of contactor typical 0.00 V • at AC 6.7g / 5 ms, 4.2g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added acternically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	product designation	Power contactor
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	reference code according to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
value	
• 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	16 A
value	
• 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 4 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	3.8 A
— up to 500 V for current peak value n=20 rated value	3.6 A
• at AC-6a	5.0 A
 up to 230 V for current peak value n=30 rated value 	2.7 A
— up to 200 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	2.5 mm ²
value	
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 60 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 60 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 60 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 60 V rated value	0.35 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 60 V rated value	3.5 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 60 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
	0.14 A
operating power	0.1344
• 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
• 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
	2.9 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	
 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
Imited to 0.5 switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value
-	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero surrent maximum 	
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-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	220 V
• at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of	
magnet coil at AC	

• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	26.4 VA
• at 60 Hz	26.4 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.4 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	
• 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
uxiliary 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 200 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 100 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	10.4
at 24 V rated value	10 A
at 48 V rated value	2 A 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)
IL/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

design of the fuse link					
	ection of the main circuit	İ.			
	ordination 1 required			l: 20A (690V,100kA), BS88: 35A	
•••	signment 2 required		• · · ·	l: 16A (690V, 100kA), BS88: 20A	(415V, 80kA)
	ection of the auxiliary sw	itch required	gG: 10 A (500 V, 1 kA)		
nstallation/ mounting/ dir	nensions				
mounting position			backward by +/- 22.5° on v	-	
fastening method			screw and snap-on mountin	ng onto 35 mm DIN rail accordin	g to DIN EN 60715
 side-by-side mount 	ng		Yes		
height			58 mm		
width			45 mm		
depth			73 mm		
required spacing					
 with side-by-side m 	ounting				
— 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 connect	tion				
 for main current circ 	cuit		Ring cable lug connection		
 for auxiliary and control circuit 		ring terminal lug connection			
 at contactor for aux 	 at contactor for auxiliary contacts 		Ring cable lug connection		
-		Ring cable lug connection			
Safety related data					
product function					
 mirror contact acco 	ding to IEC 60947-4-1		Yes		
suitability for use safety-re	lated switching OFF		Yes		
B10 value with high dema	nd rate according to SN	31920	1 000 000		
proportion of dangerous	failures				
 with low demand rate 	te according to SN 3192	0	40 %		
 with high demand rate 	ate according to SN 319	20	73 %		
failure rate [FIT] with low of	lemand rate according to	o SN 31920	100 FIT		
T1 value for proof test inte 61508	rval or service life accor	ding to IEC	20 a		
protection class IP on th	e front according to IE	C 60529	IP00		
Certificates/ approvals					
General Product Approv	val				
	(m)	Confirmatio	• (h)	<u>KC</u>	103
					ΓΠΙ
	ccc		UL		
CSA					
CSA					
	Functional Safety/Safety of Ma-	Declaration of		Test Certificates	

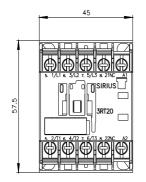
est Certific- <u>Type Test Certific-</u> ate <u>ates/Test Report</u>						
RS RINA						
Environment						
and Shock Environmental Con- firmations						
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
iacro						

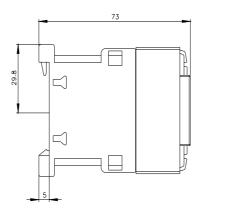
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-4AP62&lang=en

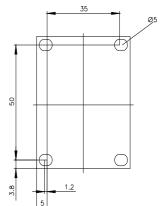
Characteristic: Tripping characteristics, I²t, Let-through current

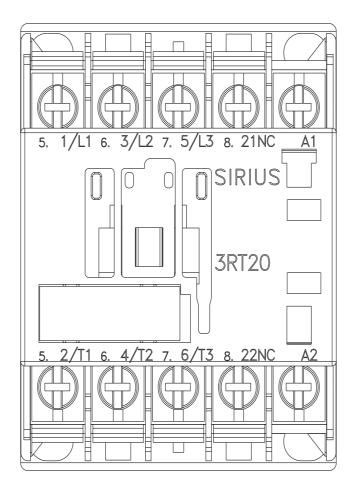
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-4AP62/char

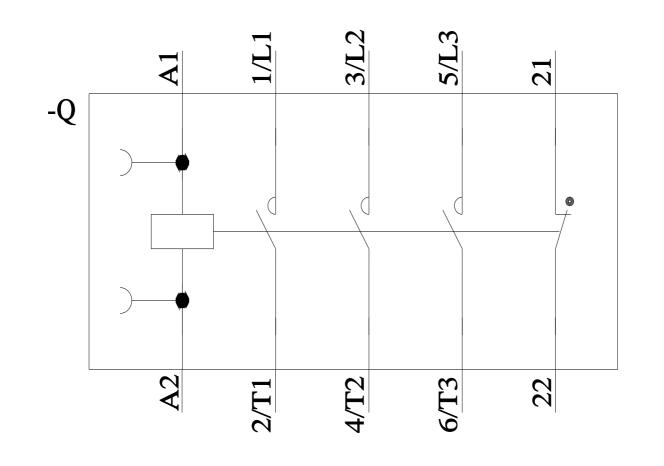
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-4AP62&objecttype=14&gridview=view1











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