SIEMENS

Data sheet

3RT2015-1AP01



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00,

product brand name SIRUS product brand designation Power contactor product type designation SRT2 contractor S00 product stension No • function module for communication No • auxiliary switch Yes power loss [W] 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 4.2 W insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 KV • of auxiliary circuit rated value 64 V • of auxiliary discuit rated value 500 V • of d			
product type designation 3RT2 General technical data	product brand name	SIRIUS	
General technical data S00 size of contactor S00 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state prole 0.2 W • without load current share typical 680 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 64 V • of main circuit with degree of pollution 3 rated value 64 V • of auxillary circuit rated value 61 V • of auxillary circuit rated value 61 V • of auxillary circuit rate value 62 V • at AC 6.7g / 5 ms, 4.2g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added alcetronically optimized auxillary switch block typical 30 000 000 • of the contactor with added alcetronically optimized auxillary switch block typical 10 000 000 • of the contactor with added alcetronically optimized auxillary switch block typical <th>product designation</th> <th>Power contactor</th>	product designation	Power contactor	
size of contactor S00 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.2 W Insulation voltage 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult with degree of pollution 3 rated value 690 V • of auxiliary circuit ated value 64 V • of auxiliary circuit rated value 64 V • of main circult with degree of pollution 3 rated value 64 V • of auxiliary circuit rated value 64 V • of auxiliary subte block of the contacts are contracts according to EN 60947-1 400 V shock resistance with sine pulse 6.7g / 5 ms, 4.2g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 6 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to EC 60068-2-20	product type designation	3RT2	
product extension No • function module for communication No • auxiliary switch Yes power loss [W] 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 4.2 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of an in circuit rated value 690 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of main contacts according to EN 00947-1 64 V shock resistance at rectangular impulse 6.7g / 5 ms, 4.2g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 0 00 • of the contactor with added auxiliary switch block typical 0 00 • of the contactor with added auxiliary switch block typical 0 00 000 • of the contactor with added auxiliary switch block typical 0 00 000 reference code according to EC 81346-2 0 <th>General technical data</th> <th></th>	General technical data		
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• at AC in hot operating state per pole 0.2 W • without bad current share typical 4.2 W insulation voltage 6 • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • at AC 6.7g / 5 ms, 4.2g / 10 ms shock resistance with sine pulse 6.7g / 5 ms, 6.6g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 5000 000 • of contactor typical 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 <tr< th=""><th>power loss [W] for rated value of the current</th><th></th></tr<>	power loss [W] for rated value of the current		
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 of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 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 -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum maximum 	mechanical service life (operating cycles)		
auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m 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 % Main circuit 95 %	 of contactor typical 	30 000 000	
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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	
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 4	Substance Prohibitance (Date)	10/01/2009	
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	Ambient conditions		
• 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	installation altitude at height above sea level maximum	2 000 m	
• 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 95 % Main circuit 95 %	during operation	-25 +60 °C	
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during storage	-55 +80 °C	
maximum 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	5	
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	18 A	
value		
— 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 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 		

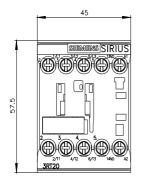
— at 24 V rated value	15 A			
— at 60 V rated value	0.35 A			
— at 110 V rated value	0.1 A			
 with 2 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	15 A			
— at 60 V rated value	3.5 A			
— at 110 V rated value	0.25 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 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			
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 200 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				
 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			
 limited 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	230 V			
• at 60 Hz rated value	230 V			
operating range factor control supply voltage rated value of magnet coil at AC				
● at 50 Hz	0.8 1.1			

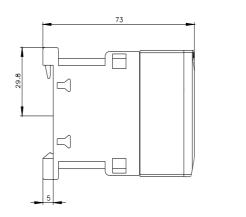
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	0.0 V/
at 50 Hz	0.25
• at 50 Hz	0.25
	0.25
closing delay	0.05
• 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 NO 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
operational current at DC-13	10.1
• 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	1 A
• 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	
— 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
Short-circuit protection	
design of the fuse link	
acaign of the ruse mit	

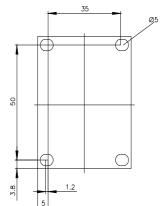
• for short-circuit protection of the main circuit			
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)		
- with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
Installation/ 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 methodside-by-side mounting	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes		
height	58 mm		
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 	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
 at contactor for auxiliary contacts 	Screw-type terminals		
 of magnet coil 	Screw-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
connectable conductor cross-section for main contacts			
• solid	0.5 4 mm ²		
stranded	0.5 4 mm ²		
finely stranded with core end processing	0.5 2.5 mm²		
connectable conductor cross-section for auxiliary contacts	0.5 4 mm ²		
 solid or stranded finally stranded with core and processing 	0.5 4 mm² 0.5 2.5 mm²		
finely stranded with core end processing	0.0 2.0 mm		
type of connectable conductor cross-sections • for auxiliary contacts			
Ior auxiliary contacts — solid or stranded	$2 \times (0.5 - 1.5 \text{ mm}^2)$ $2 \times (0.75 - 2.5 \text{ mm}^2)$ $2 \times 4 \text{ mm}^2$		
 — solid of stranded — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross	LA LO 10), LA (10 17), LA 12		
section			
for main contacts	20 12		
 for auxiliary contacts 	20 12		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29		
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 %		

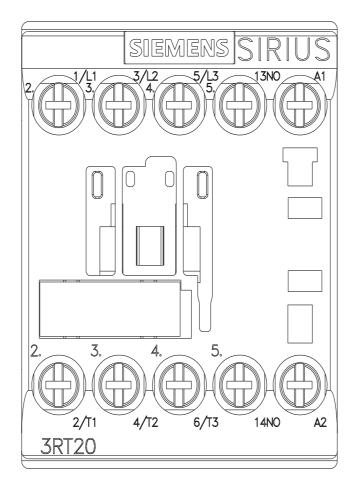
failure rate [FIT] with lo	ow demand rate according	to SN 31920	100 FIT			
T1 value for proof test interval or service life according to IEC 61508		20 a				
protection class IP o	n the front according to I	EC 60529	IP20			
touch protection on t	the front according to IEC	60529	finger-safe	e, for vertical contac	t from the front	
suitability for use						
 safety-related system 	witching OFF		Yes			
Certificates/ approvals						
General Product App	proval					
		<u>Confirmatio</u>	<u>n</u>	UL UL	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	1	Test Certificates	
RCM	Type Examination Cer- tificate	UK CA		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping						
ABS	BUREAU VERITAS			Llovd's Register us	PRS	RINA
Marine / Shipping	other				Railway	Environment
RMRS	<u>Confirmation</u>	DE)	<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations
Further information	to ovit the Pussion mark					

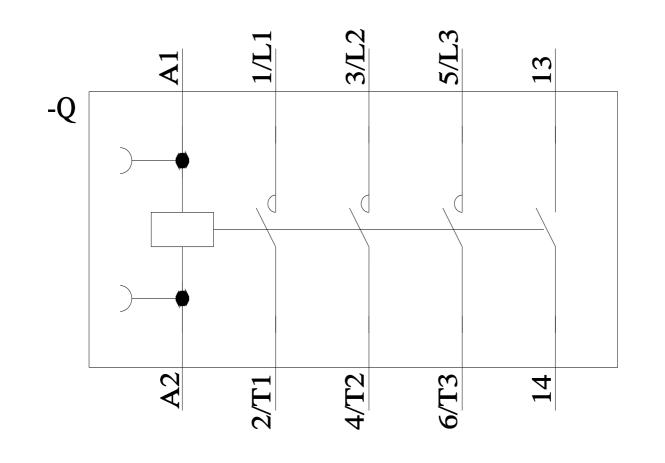
Further information
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the 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
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AP01
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AP01
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AP01
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AP01⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AP01/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AP01&objecttype=14&gridview=view1











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