SIEMENS

Data sheet

3RT2025-1AH20



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 48 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name SiRUS product brand designation Power contactor product type designation SRT2 Connect teension So • function module for communication No • auxiliary switch Yes power loss [V] for rated value of the current Instance • at AC in hot operating state 1.8 V • at AC in hot operating state per pole 0.6 W • without load current share typical 7.9 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 with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 7.5g / 5 ms, 4.7g / 10 ms maximum permissible voltage for protective separation betweent auxit avalue 5000 000		
product type designation 3RT2 Ganeral technical data	product brand name	SIRIUS
General technical data S0 size of contactor S0 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 1.8 W • at AC in hot operating state 0.6 W • without load current share typical 7.9 W insulation voltage 660 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 690 V • of main circuit with degree of pollution 3 rated value 64V maximum generissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V • of auxillary circuit rated value 64V • et AC 7.5g / 5 ms, 4.7g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxilary switch block typical 5000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical	product designation	Power contactor
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product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.8 W • at AC in hot operating state 1.8 W • at AC in hot operating state per pole 0.6 W • without load current share typical 7.9 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 64V • of an AC 7.5g / 5 ms, 4.7g / 10 ms maximum permissible voltage for protective separation between col and main contactor with added electronically optimized auxiliary switch block typical 10 000 000 • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5000 000 • of the contactor with added auxiliary switc	General technical data	
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• auxiliary switch Yes power loss [W] for rated value of the current	product extension	
power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole 0.6 W without load current share typical 7.9 W Insulation voltage of main circuit with degree of pollution 3 rated value 690 V e of auxiliary circuit with degree of pollution 3 rated value 690 V e of auxiliary circuit with degree of pollution 3 rated value 690 V e of auxiliary circuit with degree of pollution 3 rated value 690 V e of main circuit rated value 6 kV of auxiliary circuit rated value 6 kV e of auxiliary circuit rated value 6 kV e of auxiliary circuit rated value 8 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC r, 5g / 5 ms, 4, 7g / 10 ms shock resistance with sine pulse at AC of contactor 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 10/01/2009 Anbient conditions Installation altitude at height above sea level maximum 2000 m ambient temperature during operation -25 +60 °C during operation -25	 function module for communication 	No
• at AC in hot operating state 1.8 W • at AC in hot operating state per pole 0.6 W • without load current share typical 7.9 W insultation 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 690 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 7.5g / 5 ms, 4.7g / 10 ms shock resistance at rectangular impulse • at AC • at AC 11.8g / 5 ms, 7.4g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized 2000 no • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch bl	auxiliary switch	Yes
• at AC in hot operating state per pole 0.6 W • without load current share typical 7.9 W insulation voltage 6 • 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 690 V • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of main contract value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V • at AC 7,5g / 5 ms, 7,4g / 10 ms mechanical service life (operating cycles) - • of contactor typical 10 000 000 • of the contactor with added electronically optimized 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 typ	power loss [W] for rated value of the current	
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• of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 400 V • at AC 7,5g / 5 ms, 4,7g / 10 ms • at AC 11.8g / 5 ms, 7,4g / 10 ms • at AC 11.8g / 5 ms, 7,4g / 10 ms • at AC 10 000 000 • of the contactor typical 10 000 000 • of the contactor with added electronically optimized 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 • 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 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 000 n • of the contactor with add	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
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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 %	Substance Prohibitance (Date)	10/01/2009
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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	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	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	14.1 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	7.6 A
 — up to 400 V for current peak value n=30 rated value 	7.6 A
 — up to 500 V for current peak value n=30 rated value 	7.6 A
 — up to 690 V for current peak value n=30 rated value 	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	7.7 A
• at 690 V rated value	7.7 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
- at 110 V rated value	35 A
- at 220 V rated value	35 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	20 A			
— at 60 V rated value	5 A			
— at 220 V rated value	1 A			
— at 440 V rated value	0.09 A			
— at 600 V rated value	0.06 A			
 with 2 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	35 A			
— at 60 V rated value	35 A			
— at 110 V rated value	15 A			
— at 220 V rated value	3 A			
— at 440 V rated value	0.27 A			
— at 600 V rated value	0.16 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	35 A			
— at 60 V rated value	35 A			
— at 110 V rated value	35 A			
— at 220 V rated value	10 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.6 A			
	0.07			
 operating power at AC-2 at 400 V rated value 	7.5 kW			
	7.0 NVV			
• at AC-3	4 1344			
— at 230 V rated value	4 kW			
— at 400 V rated value	7.5 kW			
— at 500 V rated value	7.5 kW			
— at 690 V rated value	11 kW			
• at AC-3e				
— at 230 V rated value	4 kW			
— at 400 V rated value	4.5 kW			
— at 500 V rated value	7.5 kW			
— at 690 V rated value	11 kW			
operating power for approx. 200000 operating cycles at AC-				
4				
• at 400 V rated value	3.5 kW			
 at 690 V rated value 	6 kW			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=20 rated value	4.5 kVA			
	7.8 kVA			
• up to 230 V for current peak value n=20 rated value				
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	7.8 kVA			
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	7.8 kVA 9.9 kVA			
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 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	7.8 kVA 9.9 kVA 13.6 kVA 3 kVA			
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	48 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	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
● at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
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	1 A
• 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	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	14 A
• at 600 V rated value	17 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp

• for 3-phase AC motor			
- at 200/208 V rated value	3 hp		
— at 220/230 V rated value	5 hp		
— at 460/480 V rated value			
- at 575/600 V rated value	10 hp		
contact rating of auxiliary contacts according to UL	15 hp A600 / P600		
Short-circuit protection	A000 / F000		
design of the fuse link			
5			
for short-circuit protection of the main circuit with time of coordination 1 required	aC: 624 (600)/ 100/41 aM: 224 (600)/ 100/41 BS89: 624 (415)/ 80/41		
 — with type of coordination 1 required with type of coordination 2 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)		
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (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 method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
 side-by-side mounting 	Yes		
height	85 mm		
width	45 mm		
depth	97 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 (1 2.5 mm²), 2x (2.5 10 mm²)		
solid solid or stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)		
 finely stranded with core end processing 	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²		
connectable conductor cross-section for main contacts			
• solid	1 10 mm²		
• stranded	1 10 mm ²		
 finely stranded with core end processing 	1 10 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 finely stranded with core end processing for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
for main contacts	16 8		
· · · ·····			

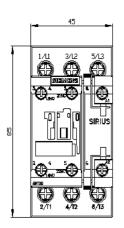
 for auxiliary containing 	acts		20 14			
Safety related data						
product function						
 mirror contact ac 	cording to IEC 60947-4-1		Yes			
B10 value with high der	310 value with high demand rate according to SN 31920		450 000			
proportion of dangero						
with low demand rate according to SN 31920		40 %				
	d rate according to SN 3192		73 %			
	w demand rate according to		100 FIT			
	nterval or service life accord		20 a			
61508			20 0			
protection class IP on	protection class IP on the front according to IEC 60529		IP20			
touch protection on th	ne front according to IEC	60529	finger-safe, for vertical contact from the front			
suitability for use						
 safety-related sw 	vitching OFF		Yes			
Certificates/ approvals	-					
General Product App	roval					
General i roduct App	loval					
		<u>Confirmation</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register urs	RINA	RMRS	
other			Railway	Environment		
other			Runway	Linnonnent		
<u>Confirmation</u>		<u>Confirmatio</u>	n <u>Vibration and Shock</u>	Environmental Con- firmations		
Further information						
	to exit the Russian marke					
Siemens is working o Please contact your loc EAC relevant market (o Information on the par https://support.industry.	ther than the sanctioned E/ ckaging siemens.com/cs/ww/en/vier nloadcenter (Catalogs, Br	nt EAC certifica atus of validity of AEU member sta w/109813875	tes. the EAC certification if you inten	d to import or offer to supp	oly these products to an	
Industry Mall (Online		og/product?mlfb=	<u>=3RT2025-1AH20</u>			

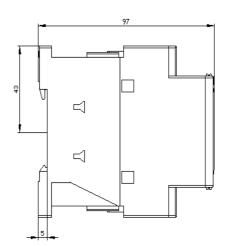
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1AH20</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AH20</u>

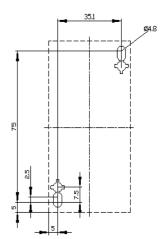
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-1AH20&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AH20/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AH20&objecttype=14&gridview=view1











last modified:

2/10/2023 🖸