SIEMENS

Data sheet

3RT2017-2KB42-0LA0



traction contactor, AC-3 12 A, 5.5 kW / 400 V 24 V DC, 0.7-1.25*US with integrated suppressor diode 3-pole, size S00 spring-type terminal suitable for PLC outputs not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	S00
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 	3.6 W
 at AC in hot operating state per pole 	1.2 W
without load current share typical	4 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
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 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 	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %

relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	C00.)/
 at AC-3 rated value maximum at AC-3e rated value maximum 	690 V 690 V
operational current	090 V
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
• at AC-1 at 400 v at ambient temperature 40 C rated value • at AC-1	22 7
- 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-2 at 400 V rated value 	12 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
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 400 V rated value at 690 V rated value	3.3 A
operating power	0.0 A
at AC-2 at 400 V rated value	5.5 kW
• 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
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 limited to 20 a switching at zero surrent maximum 	96 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 current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum no.load switching frequency	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at DC	1 500 1/h
operating frequency	
• at AC-2 at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	

Spee of voltage of the control supply voltage DC control supply voltage at DC 24 V optication range colls at DC 24 V optication range colls at DC 24 V optication range colls at DC 34 V obtains any et colls at DC 35 Paperson diode obtains any et colls at DC 35 Paperson diode obtains any et colls at DC 35 W holding power of magnet coll at DC 35 W obtains any et colls at DC 35 W obtains power of magnet coll at DC 35 W obtains power of magnet coll at DC 35 W obtains power of magnet coll at DC 35 W obtains power of magnet coll at DC 35 Second Sec	ture of voltage	
control supply voltage a DC 24 • attack value 24 • attack value 24 • attack value 0.7 • attack value 1.25 design of the surge suppressor suppressor diode clearing power of magnet coll at DC 1.25 design of the surge suppressor suppressor diode clearing power of magnet coll at DC 4W clearing delay - • at DC 25 130 ms oppenting delay - • at DC 7 20 ms • at DC 4W clearing the 10 15 ms control version of the surge surger mechanism 14.2 Auxiliary current at DC-12 10 A • at 230 Vinet value 10 A operational current at AC-15 10 A • at 24 Vrated value 10 A • at 25 Vrated value 10 A • at 26 Vrated value 0 A • at 26	type of voltage	
• rated value 24 V operating range factor control supply voltage rated • • infial value 0.7 • iuli scale value 1.25 design of the surge suppressor suppressor diode closing power of magnet coil at DC 1.8V • holding power of magnet coil at DC 4W • closing delay 25 • at DC 25 • at DC 7 • at ADV trade value 10 • at ADV trade value 10 A • at ADV trated value 10 A		
operating range factor control supply voltage rated value of magnet coil at DC 0.7 • full-acate value 1.25 • full-acate value 1.0 • full-acate value 1.0 • full-acate value 2.10 • full-acate value 1.0 • full-acate value 3.A • if 500 Vrated value 3.A • if 500 Vrated value 1.0 • if 500 Vrated value 0.A • if 500 Vrated value		24.14
value of magnet coll at DC • Initial value 0.7 • Initial value 1.25 design of the surge suppressor suppressor diade closing power of magnet coll at DC 4W • Initial value 13 W • Initial value 4W • Initial value 4W • Initial value 4W • Initial value 10. • Initial value 3. • Initial value 10. • Initial value 10. <td></td> <td></td>		
• All scale value 125 design of the surge suppressor suppressor diode closing power of magnet coil at DC 13 W • at DC 25 • at DC 7 • at DC 10 • at S00 Vrated value 10 • at S00 Vrated value 10 A • at S00 Vrated value 2 A • at S00 Vrated value 2 A • at S00 Vrated value 10 A	value of magnet coil at DC	
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• at 680 V rated value 1 A operational current at DC-12 - • at 24 V rated value 6 A • at 40 V rated value 6 A • at 60 V rated value 2 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 - • at 24 V rated value 10 A • at 48 V rated value 0.15 A operational current at DC-13 - • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.4 • at 60 V rated value 0.9 A • at 110 V rated value 0.9 A • at 220 V rated value 0.1 A UL/CSA ratings - full-load current (FLA) for 3-phase AC motor - • at 800 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] - • for single-phase AC motor - - at 200208 V rated value 3 hp - at 200208 V rated value 3 hp		
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• at 600 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 0.9 A • at 220 V rated value 0.3 A • at 200 V rated value 0.14 A • at 200 V rated value 0.14 A • at 600 V rated value 0.1 A UL/CSA ratings T full-load current (FLA) for 3-phase AC motor 11 A • at 600 V rated value 11 A • at 600 V rated value 11 A vielded 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 200/208 V rated value 3 hp - at 200/208 V rated value 7.5 hp - at 460/480 V rated value 7.5 hp - at 355/600 V rated value 7.6 hp - at 575/600 V rated value 10 hp contact rating of auxilla		
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 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] 11 A • for 3-phase AC motor - - at 200/208 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 220/230 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No		
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• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.5 hp- at 110/120 V rated value2 hp• for 3 phase AC motor- at 230 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 60/480 V rated value7.5 hp- at 60/480 V rated value10 hp- at 675/600 V rated value10 hp- at 675/600 V rated value10 hp- at 675/600 V rated value10 hp- at 755/600 V rated value10 hp- at 755/600 V rated value10 hp- at 755/600 V rated value10 hp- at 675/600 V rated value10 hp at 675/600 V rated value10 hp	at 24 V rated value	10 A
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• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 200/208 V rated value3 hp- at 200/208 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionhodesign of the fuse link• for short-circuit protection of the main circuitNo		
• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value11 A• at 600 V rated value11 A• at 600 V rated value11 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 200/208 V rated value- at 200/208 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuitNo	 at 110 V rated value 	1 A
• at 600 V rated value 0.1 A 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 • at 600 V rated value 11 A yielded mechanical performance [hp] • • for single-phase AC motor 0.5 hp - at 110/120 V rated value 2 hp • for 3-phase AC motor - - at 230 V rated value 3 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 3 hp - at 260/480 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link • for short-circuit protection of the main circuit	 at 125 V rated value 	0.9 A
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] 11 A • for single-phase AC motor 0.5 hp - at 110/120 V rated value 2 hp • for 3-phase AC motor - at 230 V rated value - 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 460/480 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link • for short-circuit protection of the main circuit	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor 11 A • at 480 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] 11 A • for single-phase AC motor 0.5 hp - at 110/120 V rated value 2 hp • for 3-phase AC motor 2 hp • for 3-phase AC motor 3 hp - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 220/230 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link • for short-circuit protection of the main circuit	• at 600 V rated value	0.1 A
• at 480 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] 11 A • for single-phase AC motor 0.5 hp - 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 220/230 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 No design of the fuse link • for short-circuit protection of the main circuit	UL/CSA ratings	
• at 480 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] 11 A • for single-phase AC motor 0.5 hp - 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 220/230 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 No design of the fuse link • for short-circuit protection of the main circuit		
• at 600 V rated value11 Ayielded mechanical performance [hp]11 A• for single-phase AC motor0.5 hp- at 110/120 V rated value0.5 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value7.5 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuitNo		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 3 hp - at 200/208 V rated value 3 hp - at 220/230 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 No design of the fuse link • for short-circuit protection of the main circuit	• at 600 V rated value	
 for single-phase AC motor at 110/120 V rated value bp at 230 V rated value bp for 3-phase AC motor at 200/208 V rated value bp at 200/208 V rated value bp at 200/208 V rated value contact value value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No 	yielded mechanical performance [hp]	
at 230 V rated value2 hp• for 3-phase AC motor3 hp at 200/208 V rated value3 hp at 220/230 V rated value3 hp at 460/480 V rated value7.5 hp at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuitImage: Contact in the main circuit		
• 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 No product function short circuit protection of the main circuit No	— at 110/120 V rated value	0.5 hp
at 200/208 V rated value3 hp at 220/230 V rated value3 hp at 460/480 V rated value7.5 hp at 575/600 V rated value10 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNodesign of the fuse link• for short-circuit protection of the main circuit	— 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
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Product function short circuit protection product function short circuit protection No design of the fuse link • for short-circuit protection of the main circuit	— at 460/480 V rated value	7.5 hp
Short-circuit protection No product function short circuit protection No design of the fuse link • for short-circuit protection of the main circuit	— at 575/600 V rated value	10 hp
product function short circuit protection No design of the fuse link • for short-circuit protection of the main circuit		A600 / Q600
design of the fuse link • for short-circuit protection of the main circuit	Short-circuit protection	
for short-circuit protection of the main circuit	product function short circuit protection	No
	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 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)		
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 standard mounting rail according to DIN EN 60715		
 side-by-side mounting 	Yes		
height	70 mm		
width	45 mm		
depth	121 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 	spring-loaded terminals		
 for auxiliary and control circuit 	spring-loaded terminals		
 at contactor for auxiliary contacts 	Spring-type terminals		
 of magnet coil 	Spring-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 4 mm²)		
 finely stranded with core end processing 	2x (0.5 2.5 mm²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		
 at AWG cables for main contacts 	2x (20 12)		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0,5 4 mm²)		
 — finely stranded with core end processing 	2x (0.5 2.5 mm²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		
at AWG cables for auxiliary contacts	2x (20 12)		
AWG number as coded connectable conductor cross 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		
 positively driven operation according to IEC 60947- 5-1 	No		
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 %		

	ow demand rate accord	ling to SN	100 FIT			
31920 T1 value for proof test interval or service life according to		according to	20 у			
IEC 61508 protection class IP on the front according to IEC		to IEC	IP20			
60529 touch protection on the front according to IEC 60529		IEC 60529	finger-safe, for vertical contact from the front			
Communication/ Prote	-	_	5			
product function bus Certificates/ approvals		_	No			
General Product Ap						
		Confirmation		<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of	Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	B U R E A U VERITAS		Lloyd's Register uts	PRS	RINA	
Marine / Shipping	other		Railway		Dangerous Good	
KMRS	Confirmation		<u>Special Test Certific-</u> <u>ate</u>	<u>Vibration and Shock</u>	<u>Transport Informa-</u> <u>tion</u>	
Further information						
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=3RT2017-2KB42-0LA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2KB42-0LA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KB42-0LA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2KB42-0LA0⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KB42-0LA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2KB42-0LA0&objecttype=14&gridview=view1						
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