SIEMENS

Data sheet

3RT2036-1AK60



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

product brand name SIRIUS product designation Power contactor product type designation 3RT2 Central tachnical data	4/0 6/0	
product type designation 3RT2 Central technical data	product brand name	SIRIUS
General technical data Size of contactor S2 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 12 W • at AC in hot operating state per pole 4 W • without load current share typical 65 W insulation 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 main circuit rated value 68 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 V • of duckings for protective separation between coll and main contactor states of the contactor typical 10.00 000 • of the contactor with added auxiliary switch block typical 10.000	product designation	Power contactor
size of contactor S2 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state per pole 4 W • without load current share typical 6.5 W insulator 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 auxiliary circuit rated value 64V • of main circuit with degree of pollution 3 rated value 64V • of main circuit with degree of pollution 3 rated value 64V • of main circuit rated value 64V • of main circuit rated value 64V • of auxiliary circuit rated value 64V • of auxiliary circuit rated value 64V • of auxiliary circuit rated value 61V • of contactor with sine pulse 11.8g / 5 ms, 7.4g / 10 ms mechanical service iffe (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 0 • of the contactor with	product type designation	3RT2
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of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of xV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse ot AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) of contactor typical 10 000 000 of the contactor with added electronically optimized auxiliary switch block typical 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 of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical to 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 at 55 °C according to IEC 60068-2-30 maximum	 without load current share typical 	6.5 W
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• of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) • • of contactor typical 10 000 000 • 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) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % 95 % 95 %	surge voltage resistance	
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auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 	10 000 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 %		5 000 000
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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
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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 % Main circuit	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	
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated	60 A
value	
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	41 A
at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	43.2 A
— 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 	43.2 A 43.2 A
— up to 500 V for current peak value n=20 rated value	45.2 A 24 A
• at AC-6a	24 A
 up to 230 V for current peak value n=30 rated value 	28.8 A
— up to 200 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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 	

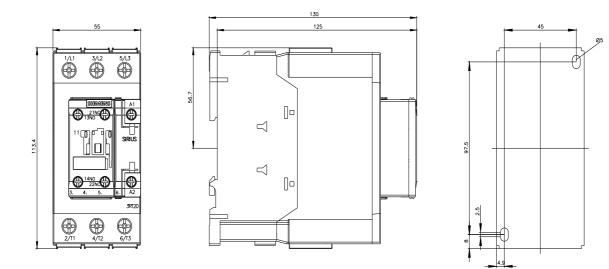
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	12.6 kW
• at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	17.2 kVA
 up to 400 V for current peak value n=20 rated value 	29.9 kVA
 up to 500 V for current peak value n=20 rated value 	37.4 kVA
 up to 690 V for current peak value n=20 rated value 	28.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	11.4 kVA
 up to 400 V for current peak value n=30 rated value 	19.9 kVA
 up to 500 V for current peak value n=30 rated value 	24.9 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
Imited to 1 s switching at zero current maximum	937 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	4.000.4/h
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC

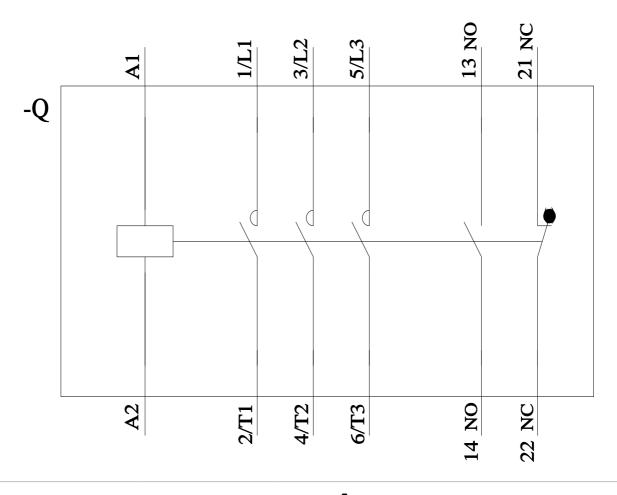
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
	· - · · P

	e for 3-phase AC motor				
	for 3-phase AC motor at 200/208 \/ rated value	5 hn			
contact rating of auxiliary contacts according to UL A600 / P600 Sind-Cricit protection design of the five in kin - with type of coordination 1 required - with type of accordination 2 required - with type of accordination 2 required - with type of accordination 2 required - side by-side mounting - with side by-side mounting - forwards - forwards					
Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 		•			
design of the fuse link for short-circuit protection of the main circuit with type of cassignment 2 required g6: 160 A (690 V, 100 KA), aM: 80 A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), aM: 60A g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), aM: 60A g6: 80A (690 V, 100 KA), aM: 60A					
for short-circuit protection of the main circuit — with type of coordination 1 required Sci 160 A (690 V, 100 AA), aM: 80 A (690 V, 100 AA), BSS AA) — with type of assignment 2 required Sci 10 A (690 V, 100 AA), aM: 80 A (690 V, 100 AA), BSS AA (690 V, 100 AA), aM: 50A (690 V, 100 AA), BSSE 63 Sci 10 A (500 V, 1 AA) Installation/ mounting/ dimensions #/180° rotation possible on vertical mounting surface; ca backward by V +22.5° on vertical mounting vertical on maxima cancer - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm					
- with type of coordination 1 required with type of assignment 2 required of s short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required solve 1/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required mounting position thetalation for auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection avertical mounting surface: ca below and by 4/-22.5° on vertical mounting surface: ca solve 3/2 (So V, 11 kA) for auxiliary and control are avertical mounting surface: ca solid or stranded i end youwards i end mounting differentials for auxiliary contacts solid or stranded i end youwards i end mount circuit i end value avert circuit i end or stranded i end y stranded with core end processing i end value avert circuit circuit i end value core end processing i for auxiliary contacts i end or stranded i end value core end processing i for auxiliary contacts i end value core end processing i for AWI	-				
image:		C: 160 A (600 V 100 KA) 2M: 80 A (600 V 100 KA) BS88: 125 A (415 V 80			
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting dimensions with fastening method screw and snap-on mounting surface; ca bedward by +-2.2.5 on vertical mounting surface; screw and snap-on mounting onto 35 mm DIN rail accord side-by-side mounting Yes height installation/ mounting/ ves side-by-side mounting Yes height installation depth 114 mm with depth iso accounting - forwards - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connectable forminals Vpe of electrical connection screw-type terminals screw-type term					
Installation/ mounting/dimensions +/-180° rotation possible on vertical mounting surface; ca mounting position +/-180° rotation possible on vertical mounting surface; ca festening method screw and snap-on mounting onto 35 mm DIN rail accord • side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing 0 mm • with side-by-side mounting - - forwards 10 mm - downwards 10 mm - downwa	— with type of assignment 2 required gG	G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
mounting position +1-80° rotation possible on vertical mounting surface; cabivarid by +1-22.5° on vertical mounting surface; cabivarid by end to end by +1-22.5° on vertical mounting surface; cabivarid by end the end by +1-22.5° on vertical mounting surface; cabivarid by end the end by +1-22.5° on vertical mounting surface; cabivarid by end the end processing 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - forwards 10 mm	• for short-circuit protection of the auxiliary switch required gG	G: 10 A (500 V, 1 kA)			
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with side-by-side mounting forwards upwards upwards upwards orwards orwards orwards orwards orwards forwards forwards forwards forwards forwards forwards forwards orwards orwert circuit solid or stranded		30 mm			
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AWG number as coded connectable conductor cross section					
• for main contacts 18 1	G number as coded connectable conductor cross				
	• for main contacts 18	81			
• for auxiliary contacts 20 14	for auxiliary contacts 20	0 14			
Safety related data	/ related data				

product function						
 mirror contact a 	ccording to IEC 60947-4-1	Yes	5			
 positively driven 	operation according to IEC	C 60947-5-1 No				
suitability for use safet	y-related switching OFF	Ye	5			
, ,	emand rate according to SN	31920 1.0	00 000			
proportion of danger						
	d rate according to SN 3192	20 40	0/2			
	0					
	nd rate according to SN 319		73 %			
	ow demand rate according t) FIT			
T1 value for proof test 61508	interval or service life acco	rding to IEC 20	а			
	n the front according to I	EC 60529 IP2	0			
-	the front according to IEC		.o ger-safe, for vertical contact	from the front		
•		60529 III į		nom the nom		
ertificates/ approvals						
General Product App	oroval					
(SP)	Confirmation			KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conf	ormity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping			Llovd's Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
KARS RARS	<u>Confirmation</u>	<u>Confirmation</u>	<u>Vibration and Shock</u>	Transport Information	Environmental Con firmations	
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Characteristic: Trippi	.siemens.com/bilddb/cax_d ing characteristics, I ² t, Le	t-through current				
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