SIEMENS

Data sheet

3RT2036-1AG64



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	No
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 	18.5 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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	
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	
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 	

- alt 2V relativation 35 Å - alt 22V relativation 6 Å - alt 22V relativation 0.1 Å - alt 22V relativation 0.06 Å - alt 24V relativation 0.06 Å - alt 25V relativation 0.06 Å		
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value5A- at 100 V rated value5A- at 24 V rated value5A- at 24 V rated value5A- at 24 V rated value0.16A- at 240 V rated value0.16A- at 240 V rated value55A- at 240 V rated value56A- at 240 V rated value52 kW- at 250 V for current pack value n=20 rated value52 kW-	— 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 40 V rated value 0.27 A - at 60 V rated value 0.6 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 20 V rated value 56 A - at 20 V rated value 56 A - at 20 V rated value 0.8 A - at 400 V rated value 22 KW - at 400 V rated value 28 KW - at 400 V rated value 20 KW - at 600 V rated value 20 KW - at 600 V for c	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
 with 3 current paths in series at DC-3 at DC-5 at 22 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 56 A at 22 V rated value 57 A at 400 V rated value 58 A at 400 V rated value 59 A at AC-2 at 400 V rated value 50 A at AC-2 at 400 V rated value 50 V rated value 50	— 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
		0.6 A
operating power at AC-2 at 400 V rated value 22 kW • at AC-3		
• at AC-2 at 400 V rated value 22 kW • at AC-3		
ext AC-3 at 230 V rated value 15 kW at 230 V rated value 22 kW at 600 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 4 400 V rated value 12 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 12 kW operating apparent power at AC-6a up to 500 V for current peak value n=20 rated value 23 kVA op to 500 V for current peak value n=20 rated value 24 kVA op to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 kVA at AC-1 rated value n=30 rated value 25 kVA op to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 s kVA at AC-1 rated value at AC-1 rated value at AC-1 rated		22 kW
	• at AC-3	
		15 kW
		30 kW
et at AC-3e - at 400 V frated value - at 690 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - binted to 1 s witching at zero current maximum - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at AC-1 maximum - at AC-1 is switching at zero current maximum - 297 A; Use minimum cross-section acc. to AC-1 rated value - at AC-1 is switching at zero current maximum - 298 A; Use minimum cross-section acc. to AC		
at 400 V rated value 22 kW at 630 V rated value 30 kW at 630 V rated value 22 kW operating power for approx. 200000 operating cycles at AC- 4 2 kW • at 400 V rated value 12.6 kW • at 600 V rated value 12.6 kW • at 600 V rated value 12.6 kW • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 28.6 kVA • up to 500 V for current peak value n=30 rated value 11.4 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 500 V for current peak value n=30 rated value 28.6 kVA • up to 500 V for current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • up to 500 V for current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • up to 500 switching at zero current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 k, Use minimum cross-section acc. to AC-1 rated value		
		22 kW
		30 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V 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 • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value 24. VXA • up to 500 V for current peak value n=30 rated value 25. KVA • up to 500 V for current peak value n=30 rated value 26. KVA short-time withstand current in cold operating state up to 40 *C • limited to 10 s switching at zero current maximum <		
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at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control		
• at AC-4 maximum 250 1/h Control circuit/ Control		
Control circuit/ Control		
		250 1/h
type of voltage of the control supply voltage AC		
	type of voltage of the control supply voltage	AC

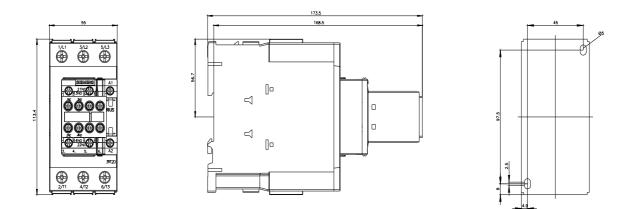
control supply voltage at AC	
• at 50 Hz rated value	100 V
at 60 Hz rated value	100 110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 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 110 V rated value	3 A
at 125 V rated value	2 A
at 125 V rated value	1A
at 220 V rated value at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
at 48 V rated value	2 A 2 A
at 60 V rated value	2 A 1 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)
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

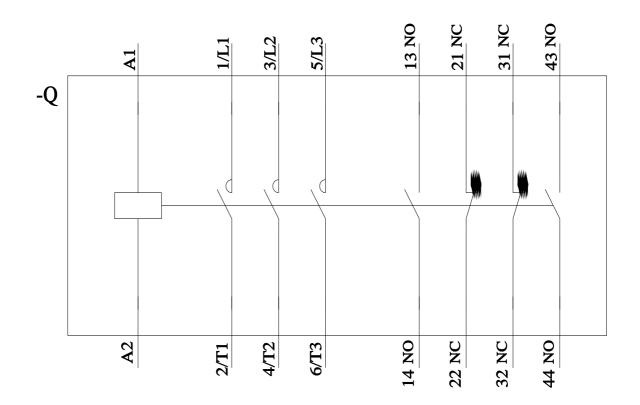
with type of assignment 2 required gG: 80A (690V • for short-circuit protection of the auxiliary switch required gG: 10 A (500 Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation height 114 mm width 55 mm depth 174 mm required spacing • • with side-by-side mounting 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 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 Or auxiliary and control circuit screw-type terr - at the side 6 mm Connections/ Terminals<	
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link - with type of coordination 1 required gG: 160 A (690 V gG) GG: 20A (690 V gG) - with type of assignment 2 required gG: 20A (690 V gG) Installation/ mounting/ dimensions mounting position +/180° rotation backward by + fastening method screw and sna screw and sna • side-by-side mounting Yes height 114 mm width 65 mm depth 174 mm required spacing • with side-by-side mounting - for mm - forwards 10 mm - domm - downwards 10 mm - domm - forwards 10 mm 0 mm - - at the side 6 mm 0 mm - - forwards 10 mm - upwards 10 mm - at the side 6 mm 0 mm - at the side 6 mm - orwards 10 mm - upwards 10 mm	
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 9G: 80A (690V • for short-circuit protection of the auxiliary switch required mounting position #stallation/mounting/dimensions mounting position + fastening method • side-by-side mounting + fastening method • side-by-side mounting - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 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 0 mm - forwards 10 mm - at the side 0 mm	
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 160 A (690 for short-circuit protection of the auxiliary switch required gG: 10 A (500 mounting position +/-180° rotation height 114 mm width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing 0 mm with side-by-side mounting 10 mm — onwards 10 mm — onwards <td< td=""><td></td></td<>	
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with type of assignment 2 required gG: 80A (690V • for short-circuit protection of the auxiliary switch required gG: 10 A (500V Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation beight 114 mm width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing • with side-by-side mounting - forwards 10 mm - qbwrads 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm	V 100 KA) CM: 20 A (600 V 100 KA) DS22: 125 A (415 V 20
• for short-circuit protection of the auxiliary switch required gG: 10 A (500) Installation/ mounting/ dimensions +/180° rotation mounting position +/180° rotation backward by +, fastening method screw and snag • side-by-side mounting width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing 0 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at th	V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80
Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation backward by + screw and sna side-by-side mounting Yes height 114 mm width 55 mm depth 174 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 10 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals screw-type term type of electrical connection screw-type term • for main current circuit screw-type term • solid or stranded 2x (1 35 mm² • solid or stranded 2x (1 35 mm² • fi	100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
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width 55 mm depth 174 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 0 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 - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm	
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type of connectable conductor cross-sections for auxiliary contacts 	
for auxiliary contacts	
	m²), 2x (0.75 2.5 mm²)
	m²), 2x (0.75 2.5 mm²)
• for AWG cables for auxiliary contacts 2x (20 16), 2	
AWG number as coded connectable conductor cross section	
• for main contacts 18 1	
• for auxiliary contacts 20 14	
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 danger	ous failures					
 with low deman 	d rate according to SN 3192	0	40 %			
 with high demai 	nd rate according to SN 3192	20	73 %			
failure rate [FIT] with lo	ow demand rate according to	SN 31920	100 FIT			
	interval or service life accore	ding to IEC	20 a			
61508						
-	n the front according to IE		IP20			
	the front according to IEC	60529	finger-safe, for vertical contact from the front			
suitability for use			Ma -			
safety-related s		_	Yes			
Certificates/ approvals						
General Product Ap	proval					
		<u>Confirmation</u>		KC	EAC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping	BUREAU VERITAS		Lloyd's Register Lks	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations	
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