SIEMENS

Data sheet

3RT2036-1AG60



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: 1 NO + 1 NC, screw terminal, size: S2 $\,$

product brand name SIRUS product brand designation 9ower contactor product type designation SIRT2 canneral technical data - size of contactor S2 product extension No - function module for communication No - auxiliary switch Yes power loss [V] for rated value of the current 4 - at AC in hot operating state 12 W - at AC in hot operating state per pole 4 W - of main inculu with degree of pollution 3 rated value 690 V - of auxiliary circult with degree of pollution 3 rated value 690 V - of auxiliary circult with degree of pollution 3 rated value 690 V - of auxiliary circult rated value 64 KV - of auxiliary circult rated value 10.00 V		
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state 12 W • without load current share typical 18.5 W insulation voltage 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 main circuit rated value 64 V • of auxiliary circuit rated value 64 V • of the contactor with added electronically optimized auxiliary switch bino pulse 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 5000 000 • of the contactor with added auxiliary switch block typical 10 000 000 <tr< th=""><th>product designation</th><th>Power contactor</th></tr<>	product designation	Power contactor
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• at AC in hot operating state 12 W • at AC in hot operating state prole 4 W • without load current share typical 8.5 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 690 V • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 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 10 000 000 • of the contactor with added electronically optimized 10 000 000	auxiliary switch	Yes
• at AC in hot operating state per pole 4 W • without load current share typical 18.5 W insulation voltage 60 P • 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 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • 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 typical 10 000 000 • of the contactor	power loss [W] for rated value of the current	
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• 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 680 V • of main circuit rated 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 shock resistance at rectangular impulse 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 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 00 00 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 00 00 00 </th <th> without load current share typical </th> <th>18.5 W</th>	 without load current share typical 	18.5 W
• of auxillary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxillary circuit rated value 6 kV • at AC 1400 V • at AC 18.5g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • at AC 10 000 000 • 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 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 • durin	insulation voltage	
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• of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • 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 0 00 00 • 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 auxiliary circuit with degree of pollution 3 rated value 	690 V
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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 th 8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse at AC th 8c / 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 auxiliary switch block typical of othe contactor with added auxiliary switch block typical for out the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical for out the contactor with added auxiliary switch block typical for out the contactor with added auxiliary switch block typical for out the contactor with added auxiliary switch block typical for out conditions conditions conditions ambient conditions conditions conditions conditions conditions conditions conditions conditions conditions conditions for on the conditions for on the c	 of main circuit rated value 	6 kV
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• at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse		400 V
shock resistance with sine pulse a. at AC • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 0 000 000 • 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 • 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 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 4000 m	shock resistance at rectangular impulse	
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auxiliary switch block typical I0 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 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		5 000 000
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 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	 of the contactor with added auxiliary switch block typical 	10 000 000
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)	10/01/2014
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	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	
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 7k, Use minimum cross-section acc. to AC-1 rated value • up to 500 V for current maximum 697 7k, Use minimum cross-section acc. to AC-1 rated value • up to 500 switching at zero current maximum 282 k, 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 600 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 <		
• at 690 V rated value 18.2 kW operating apparent power at AC-6a 17.2 kVA • 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 29.9 kVA • up to 690 V for current peak value n=20 rated value 27.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 200 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 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 • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current nocld operating state up to 40° C 40 °C • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 286 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero curr		
operating apparent power at AC-6a 17.2 kVA • 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 690 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 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 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 d0 °C 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1	• at 400 V rated value	12.6 kW
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• up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 500 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 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 10 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value	 up to 400 V for current peak value n=20 rated value 	29.9 kVA
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• limited 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 - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 600 1/h • at AC-3 maximum 800 1/h • at AC-3 maximum 800 1/h • at AC-4 maximum 250 1/h	-	
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3e maximum800 1/h• at AC-3e maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control		
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• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3e maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control		4 000 4/1
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Control circuit/ Control		
		250 1/h
type of voltage of the control supply voltage AC		
	type of voltage of the control supply voltage	AC

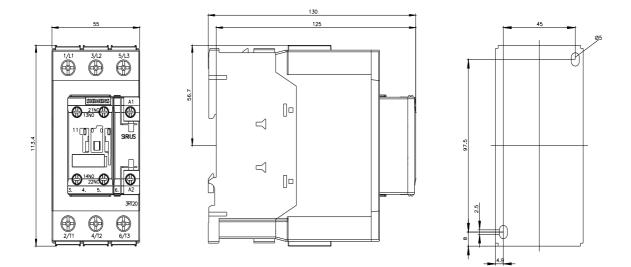
control supply voltage at AC	
• at 50 Hz rated value	100 V
at 60 Hz rated value	100 110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power 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	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	1A
• 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	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	52.4
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

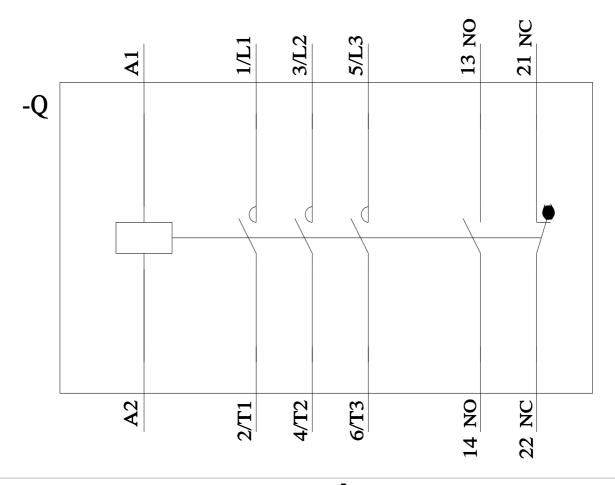
	e for 3-phase AC motor	
	for 3-phase AC motor at 200/208 \/ rated value	5 hn
		•
contact rating of auxiliary contacts according to UL A600 / P600 Sind-Cricit protection design of the five in kin - with type of coordination 1 required - with type of accordination 2 required - with type of accordination 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 bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, ½ 22 S° on vertical mounting surface; ca bedown dy V, 22 S° on vertical mounting surface; ca bedown dy V, 22 S° on vertical mounting vertical for grounded parts 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards		
- 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 the alatatod number of the auxiliary switch required solve 3/2 (So V, 1 KA) fastening method solve 3/2 solve 3/2 so	-	
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 Yes height installation/ mounting Yes height installation forwards 10 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 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 for auxiliary and control circuit 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; ca beight fastening method screw and snap-on mounting onto 35 mm DIN rail accord vide-by-side mounting height 114 mm width 55 mm dopth 130 mm required spacing 0 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - torwards 10 mm - upwards 10 mm - torwards 10 mm - t	• for short-circuit protection of the auxiliary switch required gG	G: 10 A (500 V, 1 kA)
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vidth 55 mm depth 130 mm required spacing 130 mm • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 0 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 - or auxiliary and control circuit screw-type terminals i for making and control circuit screw-type terminals • of magnet coil Screw-type terminals type o		
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• finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)		.5 2.5 mm ²
type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)		
• for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section 2x (20 16), 2x (18 14)	, , , , , , , , , , , , , , , , , , , ,	
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for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section		
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						
	according to IEC 60947-4-1	Yes				
 positively driven operation according to IEC 60947-5-1 			No			
	emand rate according to SN 3		00 000			
proportion of dange						
	d rate according to SN 31920	40 9	/o			
	nd rate according to SN 3192					
	ow demand rate according to					
	interval or service life accord					
61508			•			
protection class IP o	n the front according to IEC	C 60529 IP20)			
touch protection on	the front according to IEC 6	60529 fing	er-safe, for vertical contact	from the front		
suitability for use						
 safety-related s 	witching OFF	Yes				
ertificates/ approvals	3					
General Product Ap	proval					
(Ch	Confirmation	(m)	ŝ	<u>KC</u>	rnr	
(96)		(\mathbf{m})	(VL)		FHI	
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CSA		ccc	UL			
	Exception of					
EMC	Functional Safety/Safety of Ma-	Declaration of Confo	ormity	Test Certificates		
	chinery					
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A	Type Examination Cer-	<u>UK</u>	"	Special Test Certific-	Type Test Certific-	
- AM	tificate			ate	ates/Test Report	
RCM			EG-Konf.			
ABS			Hoyd's Register	PRS	RINA	
	VERITAS					
Marine / Shipping	other		Railway	Dangerous Good	Environment	
EXAMPS	Confirmation	Confirmation	Vibration and Shock	Transport Information	Environmental Con- firmations	
urther information						
	d to exit the Russian marke	t (see here)				
	com/global/en/pressrelease/s		ssian-business			
	on the renewal of the curre					
	cal Siemens office on the sta			d to import or offer to supp	ly these products to an	
	other than the sanctioned EA	EU member states Ru	issia or Belarus).			
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Characteristic: Tripp	ing characteristics, I ² t, Let-	through current				
	y.siemens.com/cs/ww/en/ps/3		``````````````````````````````````````			
Further characteristi	cs (e.g. electrical enduranc	e, switching frequen	<u>cy)</u>			
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