SIEMENS

Data sheet

3RT2038-1AV00



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

product brand name SIRUS product bread clasipation 9x8r2 contractor S2 contractor S2 product spin solution No - function module for communication No - auxilary switch Yees power loss [W] for rated value of the current * • at AC in hot operating state 7.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 16 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 61 V • of auxiliary circuit rated value 61 V • of cauxiliary circuit rated value 61 V		
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S2 size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state probe 5.7 W • without load current share typical 16 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 64 V • of contactor with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added stectronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	product designation	Power contactor
size of contactor §2 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 16 W insulation voltage 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult rated value 680 V • of auxiliary circuit rated value 680 V • of auxiliary circuit rated value 680 V • of auxiliary circuit rated value 64 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 1000 000 • of the contactor with added auxiliary switch block typical 10000 000 reference code according to IEC 813	product type designation	3RT2
product extension No • function module for communication No • auxillary switch Yes power loss [W] for rated value of the current 17.1 W • at AC in hot operating state 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 16 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 64V • of main circuit muted value 10.00 V • of main circuit muted value 10.000 000	General technical data	
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• at AC in hot operating state 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 16 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit 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 inpulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 10 000 000 • of contactor with added electronically optimized 2000 00 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 2000 m	 auxiliary switch 	Yes
• at AC in hot operating state per pole 5.7 W • without load current share typical 16 W insulation voltage 60 N • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 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 with added auxiliary switch block typical	power loss [W] for rated value of the current	
• without load current share typical 16 W insulation voltage 600 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • 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 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 reference code according to EC 81346-2 Q Substance Prohibitance (Date) 1001/2014 Ambient conditions 2000 m ambient temperature -25 +60 °C • during storage -55	 at AC in hot operating state 	17.1 W
Insulation voltage 600 V • of main circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit with degree of pollution 3 rated value 600 V surge voltage resistance 6400 V • of main circuit rated value 64V • of auxiliary circuit rated value 64V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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 81246-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient temper	 at AC in hot operating state per pole 	5.7 W
• 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 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 suxiliary switch block typical 10 000 000 • of the contactor with added suxiliary switch block typical 10 000 000 • of the contactor with added suxiliary switch block typical 10 000 000 • of uperatine 2 000 m ambient conditions -25 +60 °C • during storage -25 +60 °C	 without load current share typical 	16 W
• of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 600 V • of auxiliary circuit rated value 600 V • ot AC 18.5g / 5 ms, 7.4g / 10 ms • ot AC 18.5g / 5 ms, 11.6g / 10 ms • ot 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 with added auxiliary switch block typical 10 000 000 • of the contactor with added set envince 2 000 m ambient conditions 2 000 m	insulation voltage	
surge voltage resistance 6 kV • 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 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10 001/2014 Ambient conditions 2 000 m ambient temperature -40 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % Main c	 of main circuit with degree of pollution 3 rated value 	690 V
• 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 m	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• 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 11.8g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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 reference code according to EC 81346-2 Q Substance Prohibitance (Date) 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 10 %	surge voltage resistance	
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 85 / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) of contactor typical th 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 th 0000 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 during operation -25 +60 °C during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit Main circuit	 of main circuit rated value 	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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 • 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 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -55 +60 °C • during operation -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	 of auxiliary circuit rated value 	6 kV
• at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse		400 V
shock resistance with sine pulse 10 • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • 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 4000000000000000000000000000000000000	shock resistance at rectangular impulse	
• at AC18.5g / 5 ms, 11.6g / 10 msmechanical service life (operating cycles)0• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation e during storage2 000 mambient temperature • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %maximum95 %	• at AC	11.8g / 5 ms, 7.4g / 10 ms
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• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	18.5g / 5 ms, 11.6g / 10 ms
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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 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %		5 000 000
Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m • 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 %	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 %	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
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	90 A
value	30 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
- at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 600 V rated value	58 A
• at AC-3e	50 A
- at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 500 V rated value — at 690 V rated value	58 A
at AC-4 at 400 V rated value	55 A
	79.2 A
at AC-5a up to 690 V rated value	79.2 A 66.4 A
 at AC-5b up to 400 V rated value at AC-6a 	
	70 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 	70 A 70 A
— up to 500 V for current peak value n=20 rated value	70 A
— up to 690 V for current peak value n=20 rated value	58 A
 at AC-6a 	50 A
 — up to 230 V for current peak value n=30 rated value 	46.7 A
 — up to 400 V for current peak value n=30 rated value 	46.7 A
 — up to 500 V for current peak value n=30 rated value 	46.7 A
 — up to 690 V for current peak value n=30 rated value 	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	30 A
• at 690 V rated value	24 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	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	15.8 kW
at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	27.8 kVA
	48.4 kVA
 up to 400 V for current peak value n=20 rated value 	
• up to 500 V for current peak value n=20 rated value	60.6 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	60.6 kVA 69.3 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	69.3 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA 32.3 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA 32.3 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA 55.8 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA 55.8 kVA 1 298 A; Use minimum cross-section acc. to AC-1 rated value
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
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 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 1 faulty switching per 100 million (17 \/ 1 mA)
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
at 400 V rated value	62 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp
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contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
 solid or stranded 	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
 finely stranded with core end processing 	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	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	
• 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 dangerous failures	

with low deman	d rate according to SN 319	20 40	%		
	nd rate according to SN 319		%		
-	ow demand rate according		0 FIT		
T1 value for proof test interval or service life according to IEC 61508			а		
protection class IP or	n the front according to I	EC 60529 IP.	20		
touch protection on t	the front according to IEC	60529 fin	ger-safe, for vertical contact	from the front	
suitability for use					
 safety-related sy 	witching OFF	Ye	es		
Certificates/ approvals					
General Product App	proval				
	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Con	formity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
	BUREAU VERITAS		Lloyd's Register us	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
KMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2038-1AV00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1AV00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

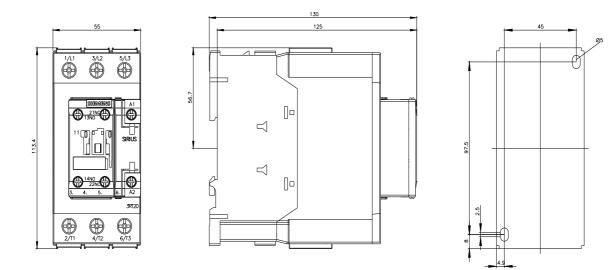
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AV00

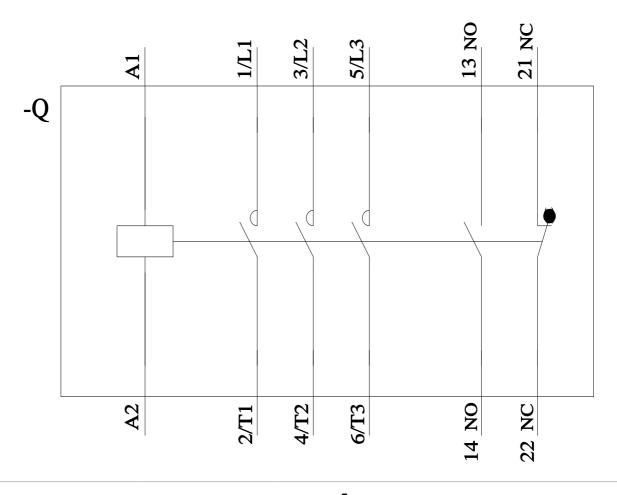
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1AV00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AV00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1AV00&objecttype=14&gridview=view1





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2/11/2023 🖸