SIEMENS

Data sheet

3RT2018-4AR62



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00

product brand name SIRUS product brand designation Power contactor product type designation 3RT2 canability be designation S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 3W • at AC in hot operating state 3W • at AC in hot operating state propel 1W • without lad current share typical 1.7 W insuliary switch 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit ated value 6 kV • 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 • of auxiliary circuit rated value 6 kV • at AC 7,3g / 5 ms, 4,7g / 10 ms * block resistance with sine pulse 1.4g / 5 ms, 7,3g / 10 ms • of contactor typical 30 000 000 • of contactor typical 10 000		
product type designation 3RT2 General technical dat Justice of contactor So0 size of contactor So0 Justice of contactor Son or function module for communication No No Son • auxiliary switch Yes Person Son or at AC in hot operating state 3 W Yes • at AC in hot operating state per pole 1 W Yes • of main circuit with degree of pollution 3 rated value 690 V Son • of main circuit rated value 690 V 690 V Son • of main circuit rated value 6 kV 6 kV 600 V 900 V • of main circuit rated value 6 kV 6 kV 6 kV 7.3g / 5 ms, 4.7g / 10 ms 900 V 900	product brand name	SIRIUS
General technical data S00 size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 3 W • at AC in hot operating state 3 W • at AC in hot operating state per pole 1 W • without load current share typical 1.7 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 rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 64 V • of contactor science of protective separation between coil and main circuit rated value 64 V • at AC 7,3g / 5 ms, 4,7g / 10 ms * at AC 11,4g / 5 ms, 7,3g / 10 ms * at AC 10 000 000 • of the contact	product designation	Power contactor
size of contactor S00 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state per pole 1 W • at AC in hot operating state per pole 1 W • • of main circuit with degree of pollution 3 rated value 690 V 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V 690 V • of auxiliary circuit rated value 64 KV 690 V • of auxiliary circuit rated value 64 KV 64 KV • of auxiliary circuit rated value 64 KV 64 KV • of auxiliary circuit rated value 64 KV 60 V • of auxiliary circuit rated value 64 KV 7.3g / 5 ms. 4.7g / 10 ms shock resistance at rectangular impulse • at AC 11.4g / 5 ms, 7.3g / 10 ms shock resistance 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 w	product type designation	3RT2
product extension No • function module for communication No • auxiliary switch Yes • auxiliary switch Yes • at AC in hot operating state 3 W • at AC in hot operating state per pole 1 W • without load current share typical 1.7 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 64V • of main circuit rated value 64V • of main circuit rated value 64V • of auxiliary circuit rated value 64V • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 30 000 000 • at AC 7.3g / 5 ms, 7.3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current3 W• at AC in hot operating state3 W• at AC in hot operating state per pole1 W• without load current share typical1.7 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value64V• of auxiliary siteh bioles (bio947-1)7.3g / 5 ms, 4.7g / 10 msshock resistance with sine pulse11.4g / 5 ms, 7.3g / 10 ms• at AC11.4g / 5 ms, 7.3g / 10 ms• at AC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m <th>size of contactor</th> <th>S00</th>	size of contactor	S00
• auxiliary switch Yes power loss [W] for rated value of the current 3 • at AC in hot operating state per pole 1 • at AC in hot operating state per pole 1 • without load current share typical 1.7 • 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 680 V • of main circuit rated value 64 V • of auxiliary circuit rated value 64 V • at AC 7,3g / 5 ms, 4,7g / 10 ms • at AC 7,3g / 5 ms, 4,7g / 10 ms • at AC 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 1000/1/2009 Arbiei	product extension	
power loss [W] for rated value of the current at AC in hot operating state 3 W • at AC in hot operating state 3 W • at AC in hot operating state prole 1 W • without load current share typical 1.7 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 rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7.3g / 10 ms • of contactor typical 30 000	 function module for communication 	No
• at AC in hot operating state per pole 1 W • without load current share typical 1.7 W • 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 680 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 1.4 (J 5 ms, 7.3g / 10 ms • of the contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 001/2009 <th>auxiliary switch</th> <th>Yes</th>	auxiliary switch	Yes
• at AC in hot operating state per pole1 W• without bad current share typical1.7 Winsulation voltage600 V• of main circuit with degree of pollution 3 rated value600 V• of auxiliary circuit with degree of pollution 3 rated value600 V• of auxiliary circuit with degree of pollution 3 rated value600 V• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value7.3g / 5 ms, 4.7g / 10 ms• shock resistance with sine pulse7.3g / 5 ms, 7.3g / 10 ms• of the contactor with added electronically optimized auxiliary switch block typical30 000 000• of the contactor with added electronically optimized 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 typical2 000 mambient conditions-25 +60 °C <th>power loss [W] for rated value of the current</th> <th></th>	power loss [W] for rated value of the current	
• without load current share typical 1.7 W insulation voltage 600 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 • of auxiliary corcuit rated value 6 kV • of auxiliary corcuit rated value 6 kV • of auxiliary corcuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contrates according to EN 60947-1 400 V shock resistance at rectangular impulse 400 V • at AC 7.3g / 5 ms, 4.7g / 10 ms mechanical service life (operating cycles) 5 000 000 • 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 EE 81346-2 Q	 at AC in hot operating state 	3 W
insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit rated value 690 V surge voltage resistance 640 V • of main circuit rated value 6 kV • of main cortact rated value 6 kV • of auxillary 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 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions -25 +60 °C installation altitude at height above sea level maximum 2000 m ambient temperature -55 +80 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30	 at AC in hot operating state per pole 	1 W
• of main circuit with degree of pollution 3 rated value 690 V • of auxillary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of auxillary 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 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms • of contactor typical 30 000 000 • 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 2 000 m auxiliary switch block typical 2 000 m ambient conditions -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 %	 without load current share typical 	1.7 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 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 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms • of contactor typical 30 000 000 • 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 addee auxiliary switch block typical 10 000 / 000 installation altitude at height above sea level maximum 2 000 m ambi	insulation voltage	
surge voltage resistance 6 • 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 • at AC • at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse • at AC • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 00 000 • of the contactor typical 30 000 000 • 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) 10/01/2009 Amblent conditions 2 000 m ambient temperature -25 +60 °C • during storage -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 %	 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 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 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse - • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 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 minimum 10 % relative humidity minimum 2 % %	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,4g / 5 ms, 7,3g / 10 ms• at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles) • of contactor typical30 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 000 000• 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 000 000• 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 typical2 000 m• of the contactor with addee auxiliary switch block typical10 000 m• of the contactor with addee auxiliary switch block typical2 000 m• of the contactor with addee auxiliary switch block typical2 000 m• of the contactor with addee auxiliary switch block typical3 000 m• of the contactor with addee auxiliary switch block typ	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 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse at AC 7,3g / 5 ms, 7,3g / 10 ms shock resistance with sine pulse at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) of contactor typical 30 000 000 5 000 000 of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 10 000 000 feference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m ambient temperature -25 +60 °C - during operation -25 +80 °C - relative humidity minimum 10 % 95 %	 of main circuit rated value 	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) • of contactor typical 30 000 000 • 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) 10/01/2009 Ambient conditions 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C • during storage -55 +80 °C • relative humidity minimum 10 %	 of auxiliary circuit rated value 	6 kV
• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles) • of contactor typical30 000 000• of contactor with added electronically optimized auxiliary switch block typical30 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 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical10/01/2009• of the contactor with added auxiliary switch block typical2 000 m• of the contactor with added auxiliary switch block typical10/01/2009• during operation-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %• relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		400 V
shock resistance with sine pulse integration yith grating • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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) 10/01/2009 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 %	shock resistance at rectangular impulse	
• at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• feference code according to IEC 81346-2Q• during operation2 000 m• during operation-25 +60 °C• during storage-55 +80 °C• during storage-55 +80 °C• relative humidity minimum10 %• relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	7,3g / 5 ms, 4,7g / 10 ms
mechanical service life (operating cycles) 10 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 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 95 %	shock resistance with sine pulse	
• of contactor typical30 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 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient 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	11,4g / 5 ms, 7,3g / 10 ms
 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 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -25 +60 °C stallative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 	mechanical service life (operating cycles)	
auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	 of contactor typical 	30 000 000
reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		5 000 000
Substance Prohibitance (Date) 10/01/2009 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 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -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)	10/01/2009
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 %	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
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Main circuit		95 %
	Main circuit	
number of poles for main current circuit 3	number of poles for main current circuit	3

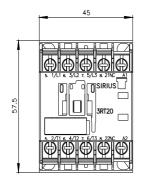
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-4 at 400 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	9.6 A
 — up to 400 V for current peak value n=20 rated value 	9.6 A
 — up to 500 V for current peak value n=20 rated value 	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

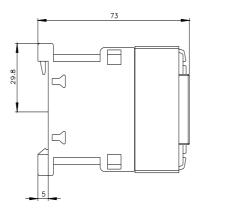
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2.5 kW
• at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	3.8 kVA
• up to 400 V for current peak value n=20 rated value	6.6 kVA
 up to 500 V for current peak value n=20 rated value 	8.3 kVA
 up to 690 V for current peak value n=20 rated value 	10.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	2.5 kVA
 up to 400 V for current peak value n=30 rated value 	4.4 kVA
• up to 500 V for current peak value n=30 rated value	5.5 kVA
• up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	169 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	92 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 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	400 V
at 60 Hz rated value	400 V 440 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1

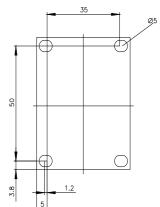
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	36 VA
• at 60 Hz	43 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
● at 50 Hz	5.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
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	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

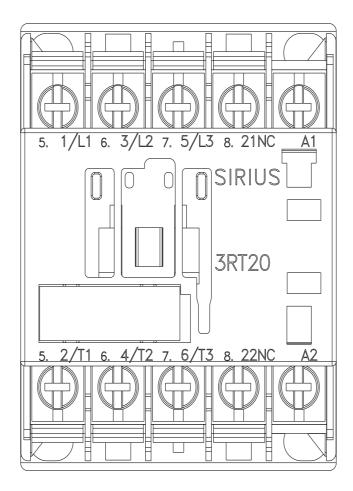
EMC Safety/Safety of Ma- Declaration o	f Conformity Test Certificates		
General Product Approval			
Certificates/ approvals			
protection class IP on the front according to IEC 60529	IP00		
61508			
T1 value for proof test interval or service life according to IEC	20 a		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
• with high demand rate according to SN 31920	73 %		
• with low demand rate according to SN 31920	40 %		
proportion of dangerous failures			
B10 value with high demand rate according to SN 31920	1 000 000		
suitability for use safety-related switching OFF	Yes		
 mirror contact according to IEC 60947-4-1 	Yes		
product function			
Safety related data			
of magnet coil	Ring cable lug connection		
at contactor for auxiliary contacts	Ring cable lug connection		
for auxiliary and control circuit	ring terminal lug connection		
for main current circuit	Ring cable lug connection		
type of electrical connection			
Connections/ Terminals			
— at the side	6 mm		
— upwards — downwards	10 mm		
— upwards	10 mm		
 for live parts forwards 	10 mm		
	10 mm		
— at the side — downwards	6 mm 10 mm		
•			
— upwards	10 mm		
 for grounded parts forwards 	10 mm		
	0 mm		
— downwards — at the side	10 mm		
— upwards	10 mm		
— forwards	10 mm		
 with side-by-side mounting 			
required spacing			
depth	73 mm		
width	45 mm		
height	58 mm		
 side-by-side mounting 	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
nstallation/ mounting/ dimensions			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)		
 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		

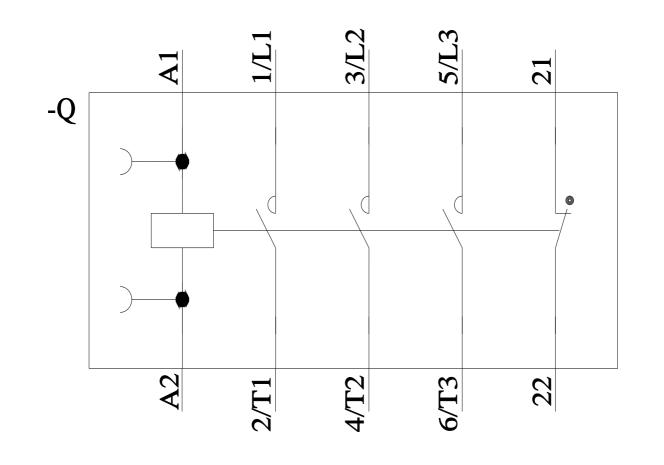
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	C C EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping						
ABS	B U REAU VERITAS		Lloyds Register urs	PRS	RINA	
Marine / Shipping	other			Railway	Environment	
RMRS	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations	
Further information						
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RT2018-4AR62 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-4AR62 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-4AR62						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-4AR62⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-4AR62/char Further characteristics (e.g. electrical endurance, switching frequency)						
	http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-4AR62&objecttype=14&gridview=view1					











last modified:

8/15/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RT20184AR62