SIEMENS

Data sheet

3RT2015-2BW42



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 48 V DC, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00,

product brand name SIRUS product type designation 9wer contactor ordunt type designation 3RT2 General technical data > size of contactor \$00 ordunt type designation No ordunt othersion > • function module for communication No • auxiliary witch Yes ordunt other type designation 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 W • of main circul with degree of pollution 3 rated value 660 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 61 V • of auxiliary circuit rated value 61 V • of auxiliary circuit rated value 61 V • of contactor with added electronicali	ZAC ALL	
product type designation 3RT2 General tochnical data	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 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state propel 0.2 W • without load current share typical 4W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64V maximum generissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance with sine pulse 6,7g / 5 ms, 4,2g / 10 ms • at DC 6,7g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 500 000 • of the contactor with added alketronically optimized auxilary switch block typical 1000 000 • of the contactor with added alketronically optimized auxilary switch block typical 1000 000 • of the contactor with added alketronically optimized auxilary switch block typical 1000 000 • of the contactor with added alketronically optimized auxilary switch block typical 1000 000 • of the c	product designation	Power contactor
size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 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 auxiliary circuit rated value 64 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 V • of auxiliary sitter borted polletion 3 rated value 60 V • of auxiliary circuit rated value 64 V • of auxiliary iccuit rated value 64 V • of auxiliary sitter borted polletion go EN 60947-1 400 V shock resistance with sine pulse 61,57 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 600 000 • of the contactor with added electronically optimized 30 000 000	product type designation	3RT2
product extension No • function module for communication No • auxillary switch Yes • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64V • of main contacts according to EN 60047-1 6.7g / 5 ms, 4.2g / 10 ms * at DC 10.5g / 5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 •	General technical data	
• function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current - • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 W insulation voitage 600 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 ated value 6 kV • of main circuit rated value 6 kV • of auxiliary contacts expression contacts expression between circuit ated value 6 g/g / 5 ms, 4.2g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • at DC 10.0g / 5 ms, 6.6g / 10 ms • ot contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical </th <th>size of contactor</th> <th>S00</th>	size of contactor	S00
• auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 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 6 kV • of main circuit rated value 6 kV • of auxiliary oricuit rated value 6 kV • of auxiliary oricuit rated value 6 kV • of auxiliary oricuit rated value 6 kV • of auxiliary witch block typical 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 6 kV • at DC 6.7g / 5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • at DC 5000 000 • of contactor typical 00 0000 • 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	product extension	
power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of main circuit rated value 680 V • of main circuit rated value 680 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 64 V • at DC 6.7g / 5 ms, 4.2g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • 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	 function module for communication 	No
• at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4 W insulation voitage 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 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 • at DC 6.7g / 5 ms, 4.2g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • of contactor with added electronically optimized auxiliary witch block 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 2000 m instataltion altit	auxiliary switch	Yes
• at AC in hot operating state per pole 0.2 W • without load current share typical 4 W insulation voltage 6 M M • 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 rated value 6 kV • of main circuit rated value 6 kV • of main circuit with degree of polletion 8 rated value 6 kV • of maxiliary circuit rated value 6 kV • of auxiliary 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 • at DC 6.7g / 5 ms, 4.2g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 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 <t< th=""><th>power loss [W] for rated value of the current</th><th></th></t<>	power loss [W] for rated value of the current	
• without load current share typical 4 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 with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between circuit and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6.7g / 5 ms, 4.2g / 10 ms • at DC 6.7g / 5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms • of the contactor with added electronically optimized auxiliary switch block 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 electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with addee electronically optimized auxiliary switch block typical 2 000 m ambient conditions	 at AC in hot operating state 	0.6 W
Insulation voltage 600 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 surge voltage resistance 600 V • 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 • 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 6.7g / 5 ms, 4.2g / 10 ms • at DC 6.7g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) - • at DC 10.5g / 5 ms, 6.6g / 10 ms • of 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 temperature -25 +60 °C • during storage -25 +60 °C • during storage -25 +60 °C	 at AC in hot operating state per pole 	0.2 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 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 6,7g / 5 ms, 4,2g / 10 ms • at DC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 10.5g / 5 ms, 6,6g / 10 ms • at DC 10.5g / 5 ms, 6,6g / 10 ms • of ontactor tyrical 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) 2000 m ambient conditions -25 +60 °C • during storage -25 +60 °C • fe	 without load current share typical 	4 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 • at DC 6,7g / 5 ms, 4,2g / 10 ms • at DC 10,5g / 5 ms, 6,6g / 10 ms • at DC 10,5g / 5 ms, 6,6g / 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 set elevel maximum 2 000 m ambient conditions 2 000 m Installation altitude at height above sea level maximum 2 000 m • during operation -25 +60 °C <th>insulation voltage</th> <th></th>	insulation voltage	
surge voltage resistance KV • of main circuit rated value 6 kV • of auxiliary 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 DC 6.5 ms, 4.2g / 10 ms shock resistance with sine pulse 7.5 ms, 6.6g / 10 ms • at DC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 6.000 000 • 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 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 strage -25 +60 °C • during strage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % <th> of main circuit with degree of pollution 3 rated value </th> <th>690 V</th>	 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 6,7g / 5 ms, 4,2g / 10 ms • at DC 6,7g / 5 ms, 6,6g / 10 ms shock resistance with sine pulse - • at DC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) - • 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 Ambient conditions 2000 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 95 %	• 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 6,7g / 5 ms, 4,2g / 10 ms • at DC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 10,5g / 5 ms, 6,6g / 10 ms • at DC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 1000 000 • of contactor with added electronically optimized auxiliary switch block typical 30 000 000 • 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) 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 storage -25 +60 °C • during storage 55 % relative humidity minimum 10 % 95 % 55 %	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 6,7g / 5 ms, 4,2g / 10 ms • at DC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at DC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 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 eference 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 -55 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	 of main circuit rated value 	6 kV
coil and main contacts according to EN 60947-1 Anticipation of the contacts according to EN 60947-1 shock resistance at rectangular impulse at DC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse at DC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor is according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature during operation -25 +60 °C -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit Mai	 of auxiliary circuit rated value 	6 kV
• at DC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse10,5g / 5 ms, 6,6g / 10 ms• at DC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)000000• 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 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 typical2 000 m• of the contactor with added auxiliary switch block typical2 000 m• of the contactor upt2 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 maximum95 %		400 V
shock resistance with sine pulse in 5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) in 0,5g / 5 ms, 6,6g / 10 ms 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 allitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C of during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	shock resistance at rectangular impulse	
• at DC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5000 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 typical000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical2000 m• auxiliary switch block typical2 000 m• during operation-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %• maximum• Main ci	• at DC	6,7g / 5 ms, 4,2g / 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 % melative 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 000 000• 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 DC	10,5g / 5 ms, 6,6g / 10 ms
• 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-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Installation tircuit95 %	mechanical service life (operating cycles)	
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 % Main circuit 95 %	 of contactor typical 	30 000 000
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 maximum 95 %		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 % 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)	10/01/2009
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 % 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 -55 +80 °C	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	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated	16 A
value	
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A 4 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	3.8 A
— up to 500 V for current peak value n=20 rated value	3.6 A
• at AC-6a	5.0 A
 up to 230 V for current peak value n=30 rated value 	2.7 A
— up to 200 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated	2.5 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	15 A				
— at 60 V rated value	0.35 A				
 with 2 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	15 A				
— at 60 V rated value	3.5 A				
— at 110 V rated value	0.25 A				
 with 3 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	15 A				
— at 60 V rated value	15 A				
— at 110 V rated value	15 A				
— at 220 V rated value	1.2 A				
— at 440 V rated value	0.14 A				
— at 600 V rated value	0.14 A				
operating power					
• at AC-3					
— at 230 V rated value	1.5 kW				
— at 400 V rated value	3 kW				
— at 500 V rated value	3 kW				
— at 690 V rated value	4 kW				
• at AC-3e					
— at 230 V rated value	1.5 kW				
— at 400 V rated value	3 kW				
— at 500 V rated value	3 kW				
— at 690 V rated value	4 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	1.15 kW				
• at 690 V rated value	1.15 kW				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=20 rated value 	1.5 kVA				
 up to 400 V for current peak value n=20 rated value 	2.7 kVA				
 up to 500 V for current peak value n=20 rated value 	3.3 kVA				
 up to 690 V for current peak value n=20 rated value 	4.3 kVA				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=30 rated value 	1 kVA				
 up to 400 V for current peak value n=30 rated value 	1.8 kVA				
 up to 500 V for current peak value n=30 rated value 	2.2 kVA				
 up to 690 V for current peak value n=30 rated value 	2.9 kVA				
short-time withstand current in cold operating state up to 40 °C					
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	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	DC				
control supply voltage at DC					
rated value	48 V				
operating range factor control supply voltage rated value of magnet coil at DC					
initial value	0.8				
• full-scale value	1.1				
closing power of magnet coil at DC	4 W				
·· · ·					

helding neuros of magnet eail of DC	A 10/
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 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 contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
 at 400 V rated value 	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	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	Hadity switching per foo minion (17 v, 1 mA)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
	6.1 A
• at 600 V rated value	0.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.051
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	4.5.4
- at 200/208 V rated value	1.5 hp
- at 220/230 V rated value	2 hp
- at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (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	70 mm
width	45 mm
depth	73 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	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm ²)
solid or stranded	2x (0,5 4 mm ²)
finely stranded with core end processing	2x (0.5 2.5 mm ²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	0.5 4 mm²
• solid	0.5 4 mm ² 0.5 4 mm ²
 stranded finally stranded with core and processing 	0.5 4 mm ²
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
- finely stranded with core end processing	2x (0.5 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920 failure rate [EII] with low demand rate according to SN 31020	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	

	<u>Confirmation</u>		U	<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovd's Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
RMRS	<u>Confirmation</u>	VDE	<u>Vibration and Shock</u>	Transport Information	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 of Please contact your lo EAC relevant market (Information on the pa	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					
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2BW42

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BW4

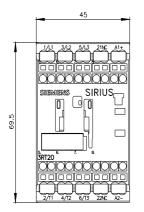
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2BW42&lang=en

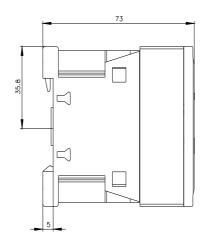
Characteristic: Tripping characteristics, I2t, Let-through current

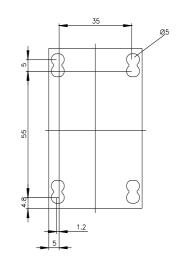
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BW42/char

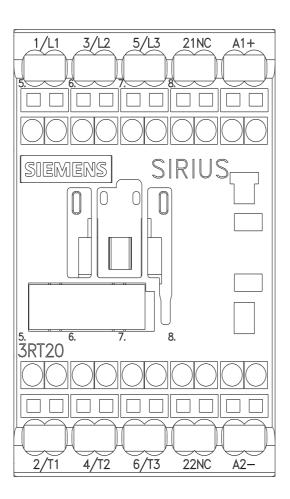
Further characteristics (e.g. electrical endurance, switching frequency)

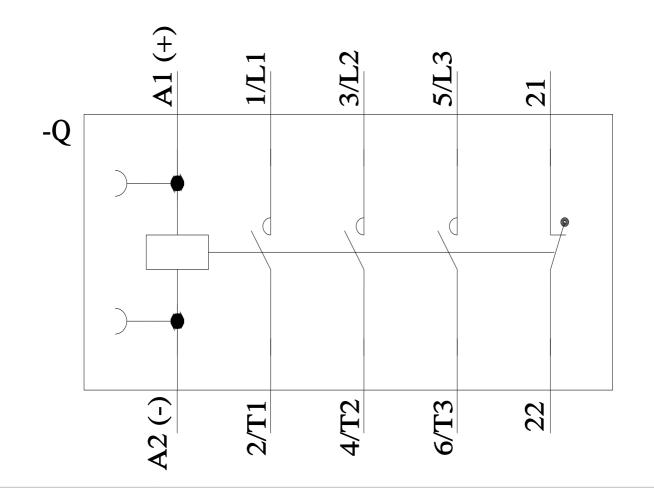
http://www.automation.siem ens.com/bilddb/index.aspx?view=S earch&mlfb











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