SIEMENS

Data sheet

3RT2026-2BB40



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name SIRUS product brand designation Power contactor size of contactor S0 orradiat technical data S0 size of contactor S0 orradiat technical data No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 5.7 W • at AC in hot operating state per pole 1.9 W • without load current share typical 5.9 W insultation voitage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 600 V • of auxiliary circuit rated value 600 V • of auxiliary circuit rated value 600 V • of auxiliary circuit rated value 100 V • of auxiliary circuit rated value 100 V • of auxiliary circuit rated value 10 00 V • of the contactor with side pu	- alal	
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S0 size of contactor S0 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 5.7 W • at AC in hot operating state 5.7 W • at AC in hot operating state prole 1.9 W • without load current share typical 5.9 W Insulation voltage 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit rated value 64 V • of auxillary circuit rated value 600 V • at DC 10g / 5 ms, 7,5g / 10 ms mechanical service life (operating cycles) 100 0000 • of the contactor with added electronically optimized auxillary switch block typical 1000 000 • of the contactor with added auxillary switch block typical 1000 000 • of the contactor with added auxillary switch block typical 1000 000 • of the contactor with added auxillary switch bloc	product designation	Power contactor
size of contactor S0 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current • at AC in hot operating state per pole 1.9 W • at AC in hot operating state per pole 1.9 W • without load current share typical 5.9 W Insulation voltage 680 V • of main circult with degree of pollution 3 rated value 690 V surger voltage resistance 6 kV • of main circult rated value 64 V • of main circult with degree of pollution 3 rated value 600 V surger voltage resistance 6 kV • of main circult rated value 64 V • of main circult rated value 6 kV • of auxiliary circuit rated value 64 V • of auxiliary circult rated value 64 V • of auxiliary circult rated value 64 V • of auxiliary surger polecitive separation between 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electeronically optimized	product type designation	3RT2
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• at AC in hot operating state per pole 1.9 W • without bad current share typical 5.9 W insulation voltage 60 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 rated value 6 kV • at DC 10g / 5 ms, 7.5g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms • at DC 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 • of the contactor with	power loss [W] for rated value of the current	
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• of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 680 V • of main circuit rated value 6 kV of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse - • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse - • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse - • at DC 10g / 5 ms, 10g / 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • elative humidity at 55 °C according to IEC 60068-2.30	 without load current share typical 	5.9 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 • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at DC 400 V • at DC 15g / 5 ms, 7,5g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms • at DC 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10001/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +60 °C<	insulation voltage	
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• 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 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse 10g / 5 ms, 10g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) 00000 • of the contactor vith 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 -55 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minum 10 % 95 % 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 400 V • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse 10g / 5 ms, 7,5g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) 000000 • 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) 10/01/2009 Amblent conditions 2 000 m 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 % 95 % 95 %	surge voltage resistance	
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coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse • at DC 15g / 5 ms, 10g / 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) 10/01/2009 Ambient conditions 2000 m ambient temperature -25 +60 °C • during operation -25 +80 °C • during storage -55 +80 °C relative humidity minimum 10 % maximum 95 %	 of auxiliary circuit rated value 	6 kV
• at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse 15g / 5 ms, 10g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) 0 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 10 %		400 V
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 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 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 -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum maximum 	mechanical service life (operating cycles)	
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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 %		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
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• during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during storage	-55 +80 °C
maximum 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	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
● at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
at AC-5a up to 690 V rated value	35.2 A
 at AC-5b up to 400 V rated value at AC-6a 	20.7 A
	20.2 A
— up to 230 V for current peak value n=20 rated value	
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	20.2 A 20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
at AC-6a	12.9 A
 up to 230 V for current peak value n=30 rated value 	13.5 A
— up to 200 V for current peak value n=30 rated value	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	9 A
at 690 V rated value	9A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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 	

- A 110 V relative25 Å- A 120 V relative0.99 Å at 60 V relative0.99 Å at 60 V relative0.99 Å at 60 V relative35 Å at 60 V relative35 Å at 60 V relative15 Å at 60 V relative15 Å at 60 V relative16 Å at 720 V relative16 Å	— at 24 V rated value	20 A				
	— at 110 V rated value	2.5 A				
	— at 220 V rated value	1 A				
• with 2 current paths landics at DC-3 at DC-3S- at 24 V riad value35 A- at 10 V riad value15 A- at 20 V riad value027 A- at 20 V riad value027 A- at 400 V riad value05 A- at 400 V riad value05 A- at 400 V riad value05 A- at 400 V riad value06 A- at 400 V riad value05 A- at 400 V riad value55 KW- at 400 V riad value11 KW- at 400 V riad value55 KW- at 400 V riad value11 KW- at 400 V riad value55 KW- at 400 V riad value55 KW- at 400 V riad value13 KW- at 400 V riad value55 KW- at 400 V riad value50 KW- at 400 V riad value50 KW- at 400 V riad value70 KW- at 400 V	— at 440 V rated value	0.09 A				
	— at 600 V rated value	0.06 A				
- a r80 V rated value56 Å- at 110 V rated value15 Å- at 220 V rated value027 Å- at 440 V rated value027 Å- at 440 V rated value05 Å- at 420 V rated value55 Å- at 420 V rated value55 Å- at 420 V rated value05 Å- at 420 V rated value05 Å- at 420 V rated value06 Å- at 420 V rated value05 Å- at 420 V rated value05 Å- at 420 V rated value16 Å- at 420 V rated value16 Å- at 420 V rated value16 Å- at 420 V rated value55 Å- at 420 V rated value16 Å- at 420 V rated value18 Å <trr>- at 420 V rat</trr>	 with 2 current paths in series at DC-3 at DC-5 					
- ait 10 V rate value15Å- ait 20V rate value00- ait 30V rate value016A- ait 30V rate value05A- ait 30V rate value35A- ait 30V rate value35A- ait 30V rate value35A- ait 30V rate value36A- ait 30V rate value35K- ait 30V rate value35K- ait 30V rate value35K- ait 30V rate value11 KW- ait 30V rate value35K- ait 30V rate value35K- ait 40V rate value11 KW- ait 30V rate value35K- ait 40V rate value11 KW- ait 30V rate value35K- ait 40V rate value35K- ait 40V rate value11 KW- ait 40V rate value35K- ait 40V rate value35K- ait 40V rate value35K- ait 40V rate value35K- ait 40V for carent pask value n-20 rate value35K- ait 40V for carent pask value n-20 rate value35K- ait 40V rate value - 30 rate value35K- ait 40V rate value - 30 rate value35K- ait 40V for carent pask value n-30 rate value35K- ait 40V for carent pask value n-30 rate value35	— at 24 V rated value	35 A				
	— at 60 V rated value	35 A				
	— at 110 V rated value	15 A				
	— at 220 V rated value	3 A				
• with 3 current paths in series at DC-3 at DC-59- at 24 V rated value35 A- at 100 V rated value35 A- at 100 V rated value36 A- at 220 V rated value0 A- at 220 V rated value0.6 A- at 230 V rated value0.6 A- at 230 V rated value5 KW- at 230 V rated value5 KW- at 230 V rated value1 KW- at 230 V rated value5 KW- at 400 V rated value1 KW- at 230 V rated value1 KW- at 340 V rated value5 KW- at 400 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value1 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value5 KW- at 340 V rated value3 KW- at 340 V rated value3 KW- at 340 V rated value3 SW- at 340 V rated value3 SW <trr>- at 340 V rated value3 SW</trr>	— at 440 V rated value	0.27 A				
- al 24 V raied value35 Å- al 100 V rated value35 Å- al 220 V rated value36 Å- al 220 V rated value10 Å- al 420 V rated value0.6 Å- al 420 V rated value0.6 Å- al 420 V rated value5.5 kW- al 420 V rated value11 kW- al 430 V rated value5.5 kW- al 400 V rated value11 kW- al 400 V rated value11 kW- al 600 V rated value12 kW- al 600 V rated value13 kW- al 600 V rated value5.5 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3	— at 600 V rated value	0.16 A				
	 with 3 current paths in series at DC-3 at DC-5 					
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	— at 60 V rated value	35 A				
	— at 110 V rated value	35 A				
	— at 220 V rated value	10 A				
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	— at 400 V rated value	11 kW				
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	— at 690 V rated value	11 kW				
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short-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	 up to 500 V for current peak value n=30 rated value 	11.6 kVA				
40 °C• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	• up to 690 V for current peak value n=30 rated value	15.5 kVA				
• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at AC-1 maximum1 500 1/h• at AC-2 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h						
Imited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated valueImited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated valueImited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum1500 1/hImited to 60 s zero750 1/hImited to 60 s zero250 1/h						
Imited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated valueImited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching frequency118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 20 s switching frequency1 500 1/hImited to 20 s at AC-1 maximum1 500 1/hImited to 20 s at AC-1 maximum1 000 1/hImited to 20 s at AC-2 maximum750 1/hImited to 20 s at AC-3 maximum750 1/hImited to 20 s at AC-3 maximum750 1/hImited to 20 s at AC-3 maximum250 1/hImited to 20 s at AC-4 maximum250 1/h	-					
• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/hoperating frequency1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h	-					
• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency1• at DC1 500 1/hoperating frequency1• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 e maximum750 1/h• at AC-4 maximum250 1/h	-					
no-load switching frequency 1 • at DC 1 500 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-3e maximum 250 1/h -	-					
• at DC 1 500 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-3e maximum 250 1/h		118 A; Use minimum cross-section acc. to AC-1 rated value				
operating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h						
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h		1 500 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						
• at AC-3 maximum 750 1/h • at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h	• at AC-1 maximum	1 000 1/h				
• at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h	• at AC-2 maximum	750 1/h				
• at AC-4 maximum 250 1/h	• at AC-3 maximum	750 1/h				
	• at AC-3e maximum	750 1/h				
Control circuit/ Control		250 1/h				
	Control circuit/ Control					

type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 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	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 ms
arcing time	10 10 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 	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	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	0 hr
- at 110/120 V rated value	2 hp
- at 230 V rated value	3 hp
• for 3-phase AC motor	5 hr
- at 200/208 V rated value	5 hp
- at 220/230 V rated value	7.5 hp
- at 460/480 V rated value	15 hp
at 575/600 V rated value	20 hp
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: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)

- with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) gG: 10 A (500 V, 1 kA)

Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
factoring method	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 Yes
side-by-side mounting height	102 mm
width	45 mm
depth	107 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 (1 10 mm²)
 solid or stranded 	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm ²
stranded	1 10 mm ²
 finely stranded with core end processing 	1 6 mm²
 finely stranded without core end processing 	1 6 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section	
 for main contacts 	18 8
 for auxiliary contacts 	20 14
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	450 000

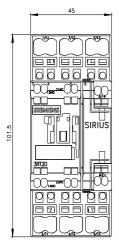
proportion of danger						
	d rate according to SN 319		40 %			
-	nd rate according to SN 319		73 %			
	w demand rate according		100 FIT			
61508	interval or service life acco	•	20 a			
-	n the front according to I		IP20			
•	he front according to IEC	60529	finger-safe, f	or vertical contact	from the front	
Certificates/ approvals		_		_		
General Product App	oroval					
(SP)		<u>Confirmatic</u>	n	Ű	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Test Certificates	Marine / Shipping					
<u>Miscellaneous</u>	ABS	BUREAU VERITAS			Lloyd's Register	PRS
Marine / Shipping		other			Railway	Dangerous Good
RINA	RARS	<u>Confirmatic</u>	<u>n</u>	DE VDE	<u>Vibration and Shock</u>	Transport Information
Environment						
Environmental Con- firmations						
Further information						
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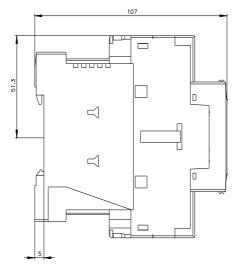
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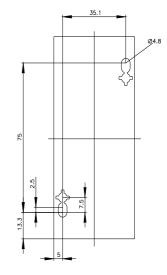
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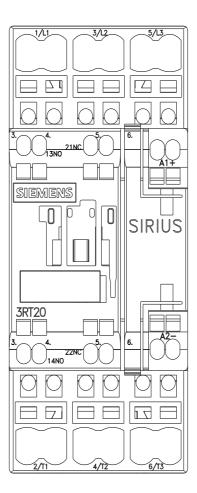
Characteristic: Tripping characteristics, I²t, Let-through current

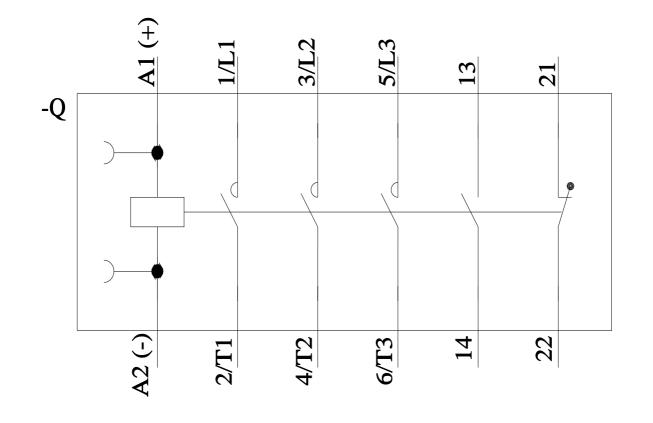
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