SIEMENS

Data sheet 3RT2017-2HB41



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.5 W
 at AC in hot operating state per pole 	0.5 W
 without load current share typical 	2.8 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 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	
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	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.317 kg
Ambient conditions	
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 %
invironmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	153 kg

global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during manufacturing	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
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	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	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	7.2 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 	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
at AC-6a	0.1 A
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 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
	0.55 A
with 3 current paths in series at DC-3 at DC-5	00.4
— 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	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 400 V for current peak value n=20 rated value	4.9 kVA
up to 500 V for current peak value n=20 rated value	6.2 kVA
up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
	1 0 1// 0
up to 230 V for current peak value n=30 rated value	1.9 kVA
 up to 400 V for current peak value n=30 rated value 	3.3 kVA
- up to EOO \/ for a	4.4.107.0
• up to 500 V for current peak value n=30 rated value	4.1 kVA
• up to 690 V for current peak value n=30 rated value	4.1 kVA 5.7 kVA
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	5.7 kVA
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value
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up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h
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up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum	5.7 kVA 200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h 750 1/h 750 1/h 750 1/h

Operating range factor control supply voltage rated value of magnet coil at Coiling power of magnet coil at DC		
magnet col at DC 126	control supply voltage at DC rated value	24 V
• initial value • initial value closing power of magnet coil at DC closing power of magnet coil at DC closing down • at DC opening delay • at DC arcing time control version of the switch operating mochanism Standard A1 - A2 Abusiliary circuit number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 virted value • at 400 Virted value • at 400 Virted value • at 680 Virted value • at 680 Virted value • at 1680 Virted value		
• full-scale value 1.25 2.8 W 1.25	-	0.7
Closing power of magnet coil at DC		
bolding power of magnet coil at DC 2.8 W		
eit DC 25 130 ms opening delay		
• at DC opening delay • at DC arcing time control version of the switch operating mechanism control version of the switch operating mechanism township of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 maximum operational current at AC-15 maximum operational current at AC-18 maximum operational current at AC-18 maximum operational current at AC-18 maximum operational current at DC-12 • at 2400 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 400 V rated value • at 800 V rated value • at 100 V rated value • at 800 V rated v		2.8 W
o el DC 7 20 ms arcing time 10 15 ms Standard A1 - A2		
• at DC 7 20 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxillary circuit 1 number of NO contacts for auxillary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 10 A • at 230 V rated value 3 A • at 450 V rated value 1 A • at 650 V rated value 1 A • at 260 V rated value 6 A • at 48 V rated value 6 A • at 125 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 2 A • at 280 V rated value 2 A • at 280 V rated value 2 A • at 280 V rated value 1 A • at 280 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 29 V rated value 2 A • at 300 V rated value 2 A • at 220 V rated val		25 130 ms
Arcling time		7. 00
Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Standard A1 - A2 number of NC contacts for auxiliary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15		
Auxiliary circuit number of NO contacts for auxiliary contacts instantaneous contact c		
number of NO contacts for auxillary contacts instantaneous contact	· -	Standard A1 - A2
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 1 A • at 500 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 10 V rated value 6 A • at 110 V rated value 3 A • at 220 V rated value 1 A • at 24 V rated value 10 A • at 24 V rated value 10 A • at 24 V rated value 10 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 1 A • at 25 V rated value 0.9 A • at 25 V rated value 0.9 A • at 25 V rated value 0.1 A • at 25 V rated value 0.1 A • at 25 V rated value 0.1 A <td></td> <td>4</td>		4
Operational current at AC-15 at 230 V rated value		1
Operational current at AC-15 at 230 V rated value		10 A
• at 230 V rated value	-	
at 400 V rated value	•	10 A
• at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 20 V rated value • at 600 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 20 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value • at 70 V rated value • at 600 V rated value • at 70 V rated value • at 70 V rated value • at 600 V rated value • at 70		
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 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 600 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 70 A; 0.4 kA at 11 A at 480 V rated value at 100 V rated value at 600 V rated value at 600 V rated value at 200 V rated value at 600 V rated value at 600 V rated value at 70 A; 0.4 kA at 11 A at 20 V rated value at 600 V rated value at		
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value out 24 V rated value at 600 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 10 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 100 V rated value at 200 V rated value	•	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 220 V rated value at 200 V rated value at 200 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 70 Single-phase AC motor at 20 V rated value at 20 V rated v	at 48 V rated value	6 A
• at 125 V rated value • at 220 V rated value • at 200 V rated value • at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 33 A • at 600 V rated value • at 34 B V rated value • at 35 V rated value • at 48 V rated value • at 36 V rated value • at 37 V rated value • at 48 V rated value • at 38 V rated value • at 48 V rated value • at 600 V rated value • for 3-phase AC motor	at 60 V rated value	6 A
• at 220 V rated value • at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value or of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts I 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 • at 600 V rated value • at 600 V rated value • at 600 V rated value or of single-phase AC motor - at 110/120 V rated value • for 3-phase AC motor • at 230 V rated value • for 3-phase AC motor	at 110 V rated value	3 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value be at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value be for single-phase AC motor - at 110/120 V rated value at 230 V rated value be for 3-phase AC motor	at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor - at 110/120 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor	at 220 V rated value	1 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 230 V at 600 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 70 V rated value at 11 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value at 240 V rated value at 230 V rated value at 240 V rated value at 240	at 600 V rated value	0.15 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value o.1 A design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value o.5 hp at 230 V rated value at 230 V rated value at 70 hpase AC motor for 3-phase AC motor at 230 V rated value bfor 3-phase AC motor 	operational current at DC-13	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value characteristic: 10 A; 0.4 kA design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 at 600 V rated value for single-phase AC motor at 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 0.5 hp at 230 V rated value bfor 3-phase AC motor 	at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value -at 230 V rated value for 3-phase AC motor for 3-phase AC motor 	• at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value -at 110/120 V rated value 5 hp for 3-phase AC motor for 3-phase AC motor 	at 60 V rated value	2 A
■ at 220 V rated value ■ at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 ■ at 600 V rated value 11 A yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value 0.5 hp — at 230 V rated value ● for 3-phase AC motor ● for 3-phase AC motor	at 110 V rated value	1 A
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 11 A at 600 V rated value 11 A yielded mechanical performance [hp] af for single-phase AC motor — at 110/120 V rated value 10.5 hp — at 230 V rated value af for 3-phase AC motor at 3-phase AC motor	at 125 V rated value	0.9 A
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V 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 • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 230 V rated value • for 3-phase AC motor	• at 220 V rated value	0.3 A
of the auxiliary circuit up to 230 V 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 • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor • for 3-phase AC motor	at 600 V rated value	0.1 A
### Comparison of Comparison o		C characteristic: 10 A; 0.4 kA
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 	JL/CSA ratings	
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	• at 480 V rated value	11 A
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor 	at 600 V rated value	11 A
— at 110/120 V rated value 0.5 hp — at 230 V rated value 2 hp ● for 3-phase AC motor	yielded mechanical performance [hp]	
— at 230 V rated value 2 hp • for 3-phase AC motor	 for single-phase AC motor 	
• for 3-phase AC motor	— at 110/120 V rated value	0.5 hp
	— at 230 V rated value	2 hp
at 200/208 V rated value 3 hp	◆ for 3-phase AC motor	
— at 200/200 v Tated value 3 Tip	— at 200/208 V rated value	3 hp
— at 220/230 V rated value 3 hp	— at 220/230 V rated value	3 hp
— at 460/480 V rated value 7.5 hp	— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value 10 hp		
contact rating of auxiliary contacts according to UL A600 / Q600		A600 / Q600
Short-circuit protection		
design of the fuse link	design of the fuse link	
• for short-circuit protection of the main circuit	·	
— with type of coordination 1 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)	 — with type of coordination 1 required 	gG: 50A (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)	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)

mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an
factoning method side by side mounting	backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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
onnections/ 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 mm²)
— solid or stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
— finely stranded with core end processing — finely stranded without core end processing	2x (0.5 2.5 mm²)
Intely stranded without core end processing for AWG cables for main contacts	
onnectable conductor cross-section for main contacts	2x (20 12)
	0.5 4 mm²
• solid	0.5 4 mm ²
stranded finally stranded with core and processing.	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 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 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
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
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	No
• positively driven operation according to IEC 60947-5-1	No
suitable for safety function	Yes

suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Test Certificates







Special Test Certific-

Type Test Certificates/Test Report





Marine / Shipping











Miscellaneous

other

other Railway **Dangerous goods Environment**

Confirmation

Special Test Certific-<u>ate</u>

Transport Information



Environmental Confirmations

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=3RT2017-2HB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2HB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2HB41

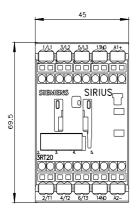
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

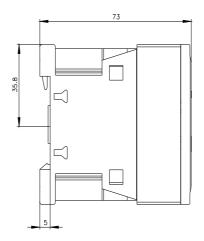
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2HB41&lang=en

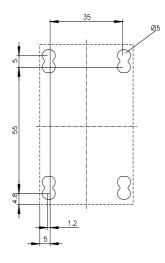
Characteristic: Tripping characteristics, I2t, Let-through current

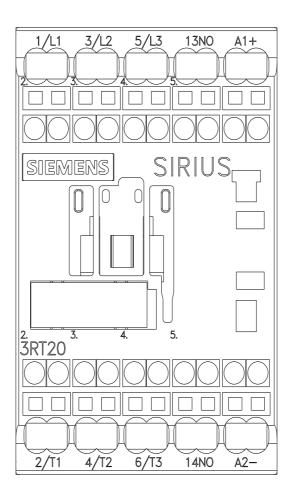
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2HB41/char

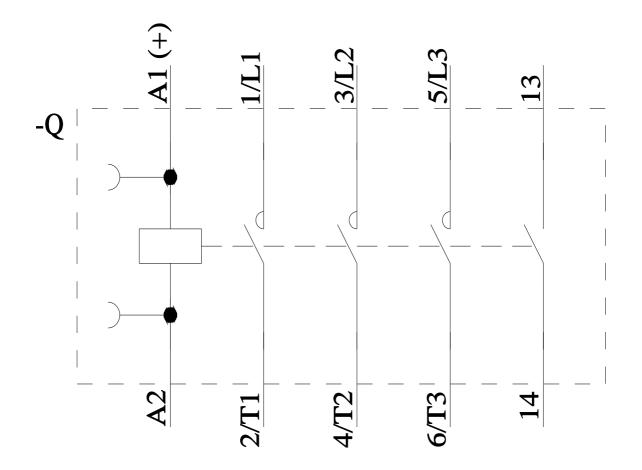
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2HB41&objecttype=14&gridview=view1











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