SIEMENS

3RT2016-2JB41 **Data sheet**



power contactor, AC-3 9 A, 4 kW / 400 V 1 NO, 24 V DC 0.7-1.25*Us 3-pole, size S00 spring-type terminal with integrated diode, 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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	2.8 W
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
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 (switching cycles)	
of contactor typical	30 000 000
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
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

operating voltage	600 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	22 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	22 A
rated value	
— up to 690 V at ambient temperature 60 °C	20 A
rated value	
at AC-3 — at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	O.I A
— at 400 V rated value	9 A
— at 500 V rated value	7.7 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	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	5.3 A
value	
— up to 400 V for current peak value n=20 rated	5.3 A
value	5 O A
 up to 500 V for current peak value n=20 rated value 	5.3 A
— up to 690 V for current peak value n=20 rated	5 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	3.5 A
value	
 up to 400 V for current peak value n=30 rated value 	3.5 A
— up to 500 V for current peak value n=30 rated	3.6 A
value	0.071
— up to 690 V for current peak value n=30 rated	3.3 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
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 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 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	00.4
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A

■ at 1 current path at DC-3 at DC-5	— 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 	
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 20 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value	— at 24 V rated value	20 A
	— at 110 V rated value	0.1 A
	 with 2 current paths in series at DC-3 at DC-5 	
- with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 120 V rated value — at 220 V rated value — at 420 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V roted v	— at 24 V rated value	20 A
	— at 110 V rated value	0.35 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
— at 440 V rated value	— at 110 V rated value	20 A
operating power at AC>3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 40 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current pea	— at 220 V rated value	1.5 A
operating power at AC-3 at at AC-3 at 230 V rated value at 500 V rated value at 500 V rated value at 690 V rated value poperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value poperating apparent power at AC-6a 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 400 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value in the for 1 s switching at zero current maximum il mited to 1 s switching at zero current maximum il mited to 1 s switching at zero current maximum il mited to 1 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 1 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching at zero current maximum il mited to 6 s switching st zero current maximum il mited to 6 s switching st zero current maximu	— at 440 V rated value	0.2 A
at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value 4 kW 5.5 kW at AC-3e at 230 V rated value 5.5 kW at AC-3e at 230 V rated value 2.2 kW 4 kW 2.2 kW 4 kW 2.2 kW 4 kW 2.2 kW 4 kW 3 to 400 V rated value 4 kW 4 kW 4 to 500 V rated value 5 kW coperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2 kW 2 to 400 V rated value 4 to 200 V rated value 5 kW coperating apparent power at AC-6a 4 up to 230 V for current peak value n=20 rated value 4 up to 500 V for current peak value n=20 rated value 5 kVA 6 kVA 6 kVA 6 kVA 6 kVA 7 kVA 8 kVA 9 to 500 V for current peak value n=30 rated value 9 to 1600 V for current peak value n=30 rated value 9 to 1600 V for current peak value n=30 rated value 9 to 1600 V for current peak value n=30 rated value 9 to 1600 V for current peak value n=30 rated value 10 to 500 V for current peak value n=30 rated value 10 to 500 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 500 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak value n=30 rated value 10 to 600 V for current peak valu	— at 600 V rated value	0.2 A
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- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 400 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current p		0.0 MT
- at 400 V rated value - at 509 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value - at 690 V rated value - 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 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current maximum - limited to 10 s switching at zero current maximum - limited to 3 s switching at zero current maximum - limited to 30 s switching at zero current maximum - limited to 30 s switching at zero current maximum - l		2.2 PM
- at 500 V rated value - at 690 V rated value 5 kW 5 kW 5 kW 2 kW at 690 V rated value 2 kW at 690 V rated value 2 kW 2.5 kW operating apparent power at AC-8 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 up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value sup to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum a limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 switching at zero current maximum b limited to 60 swi		
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at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value n=20 rated value • 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 590 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to		5 KW
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a ta 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value operating apparent power at AC-6a up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value operating apparent power at AC-6a up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value sup to 690 V for current peak value n=30 rated value imitted to 1 s switching at zero current maximum imitted to 1 s switching at zero current maximum imitted to 30 s switching at zero current maximum imitted to 30 s switching at zero current maximum imitted to 30 s switching at zero current maximum imitted to 30 s switching at zero current maximum imitted to 30 s switching at zero current maximum at MC-3 maximum at AC-3 maximum at AC-4 maximum DC control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC at AC-4 maximum operating range factor control supply voltage rated value poperating range factor control supply voltage rated value at AC-3 maximum at AC-4 maximum 24 V 44 V		2 kW
operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 400 °C • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current ma		
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C elimited to 1 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 60 s switching at zero current maximum no-load switching frequency e at DC operating frequency e at AC-2 maximum et AC-2 maximum et AC-2 maximum et AC-3 ma		21///
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up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 switching at zero current maximum ilimited to 60 switching at zero current maximum ilimited to 60 switching at zero current ma		4.0.13/A
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C e limited to 1 s switching at zero current maximum e limited to 1 s switching at zero current maximum e limited to 10 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum or-load switching frequency e at AC-1 maximum at AC-2 maximum e at AC-2 maximum e at AC-3 maximum e at AC-3 maximum e at AC-3 maximum e at AC-3 maximum e at AC-4 maximum e at A	·	
• 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 1 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 • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 100 s switching at zero current maximum • limited to 100 s switching at zero current maximum • limited to 100 s switching at zero current maximum • limited to 100 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited	·	
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 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 • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at DC 10 000 1/h • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-1 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-1 maximum • at AC-3 maximum • at AC-1 maximum • at AC-3 maximum • at AC-1 m	·	
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 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 • 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-4 maximum • at AC-4 maximum • at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage operating range factor control supply voltage rated value of magnet coil at DC		4 kVA
Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Inoload switching frequency Inoload switching frequency Ilimited to 60 s switching at zero current maximum Inoload switching frequency Ilimited to 60 s switching at zero current maximum Inoload switching frequency Inoload switching at zero current maximum Inoload switching at zero current		
• 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 • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency • at DC	 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Inoload switching frequency at DC Inologous Inol	 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
● limited to 60 s switching at zero current maximum no-load switching frequency ● at DC 10 000 1/h 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 ○ at AC-4 maximum ○ at AC-4 maximum ○ at AC-5 maximum ○ at AC-5 maximum ○ at AC-6 maximum ○ at AC-7 maximum ○ at AC-8 maximum ○ at AC-9 m	 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
ilimited 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-3 maximum at AC-4 maximum but AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC stype of water at a zero current maximum 10 000 1/h 10	• limited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value
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-3e maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value • rated value operating range factor control supply voltage rated value of magnet coil at DC	_	55 A; Use minimum cross-section acc. to AC-1 rated value
 at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage or rated value operating range factor control supply voltage rated value of magnet coil at DC 	no-load switching frequency	
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 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 	operating frequency	
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 		1 000 1/h
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 	• at AC-2 maximum	750 1/h
 at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 		
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 250 1/h DC 24 V		750 1/h
type of voltage of the control supply voltage control supply voltage at DC orated value operating range factor control supply voltage rated value of magnet coil at DC		
type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC		
control supply voltage at DC ● rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC		DC
● rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC		
operating range factor control supply voltage rated value of magnet coil at DC		24.1/
value of magnet coil at DC		24 V
• initial value 0.7		
	initial value	0.7

full-scale value	1.25		
design of the surge suppressor	diode		
closing power of magnet coil at DC	2.8 W		
holding power of magnet coil at DC	2.8 W		
closing delay	2.0 **		
• at DC	25 130 ms		
opening delay	25 100 1110		
• at DC	38 65 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit	Standard / 11 / 12		
number of NO contacts for auxiliary contacts	1		
instantaneous contact			
operational current at AC-12 maximum	10 A		
operational current at AC-15			
at 230 V rated value 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	7.6 A		
• at 600 V rated value	9 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	0.33 hp		
— at 230 V rated value	1 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	2 hp		
— at 220/230 V rated value	3 hp		
— at 460/480 V rated value	5 hp		
— at 575/600 V rated value	7.5 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 standard mounting 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 mm²)	
— 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)	
at AWG cables for main contacts	2x (20 12)	
connectable conductor cross-section for main contacts		
• solid	0.5 4 mm²	
• 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	
connectable conductor cross-section for auxiliary		
contacts		
 solid or stranded 	0.5 4 mm²	
 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)	
 at AWG cables for auxiliary contacts 	2x (20 12)	
AWG number as coded connectable conductor cross		
section	00 40	
• for main contacts	20 12	
for auxiliary contacts	20 12	
Safety related data		
product function	No	
mirror contact according to IEC 60947-4-1 P10 value with high demand rate according to SN 31920	No 1,000,000	
B10 value with high demand rate according to SN 31920	1 000 000	

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proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	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 y
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
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation



Special Test Certificate

<u>Transport Information</u>

Further information

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=3RT2016-2JB41

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2016-2JB41$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2JB41

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

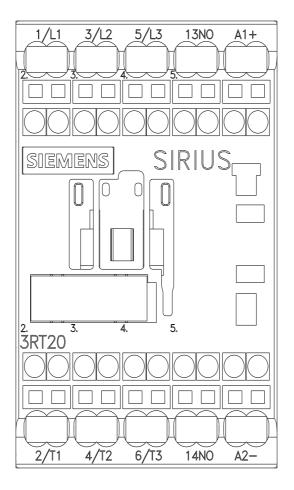
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2JB41\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2JB41/char

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2016-2JB41\&objecttype=14\&gridview=view1}$



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