SIEMENS

Data sheet

3RT2016-1BB41



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	4 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.29 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 %

Environmental 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 operation	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 value	22 A
 at AC-1 — up to 690 V at ambient temperature 40 °C rated 	22 A
value — up to 690 V at ambient temperature 60 °C rated value	20 A
• 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	
— 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 value	5.3 A
— up to 400 V for current peak value n=20 rated value	5.3 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 value	5 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	3.5 A
— 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 value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	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 24 V rated value — at 60 V rated value	20 A 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 0 summation that is partice at D0.4	
with 3 current paths in series at DC-1	20.4
— 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	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 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 kVA
• up to 400 V for current peak value n=20 rated value	3.6 kVA
• up to 500 V for current peak value n=20 rated value	4.6 kVA
• up to 690 V for current peak value n=20 rated value	5.9 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	1.3 kVA
• up to 400 V for current peak value n=30 rated value	2.4 kVA
• up to 500 V for current peak value n=30 rated value	3.1 kVA
• up to 690 V for current peak value n=30 rated value	4 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
 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	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
● at AC-2 maximum	750 1/h
● at AC-3 maximum	750 1/h
● at AC-3e maximum	750 1/h

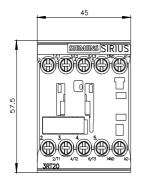
● at AC-4 maximum	250 1/h
Control circuit/ Control	230 1/11
	20
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of 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	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)

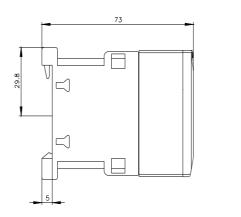
for short-circuit protection of the auxiliary switch required
Installation/mounting/dimensions

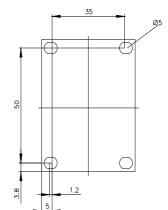
gG: 10 A (500 V, 1 kA)

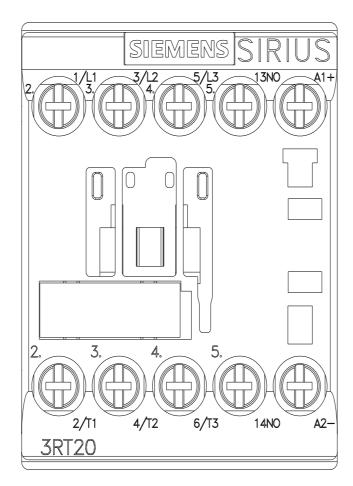
Number backward by x4.22 s'n werkal mounting jurice Instanting method soerew and anapo on mounting onto 35 mm DN rail according to DN EN 80745 height 46 mm depth 73 mm required spacing 10 mm - Lowards 10 mm - Lowards 10 mm - downwards 10 mm - downard	Installation/ mounting/ dimensions	
height 55 mm width 45 mm cepth 73 mm required spacing 73 mm - width Side-by-side mounting 10 mm - downards 10 mm <	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
width 45 mm depth 73 mm required spacing 73 mm • with side by-side mounting 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 0 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm if or auxiliary contacts	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth 73 mm required spacing - - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - for main current crouit soew-type terminals - of main current crouit soew-type terminals - of main contacts 2x (0.5 15 mm?), 2x (0.75 25 mm?), 2x 4 mm² - exolid or stranded 2x (0.5 15 mm?), 2x 4 mm² - solid or stranded 2x (0.5 15	height	58 mm
required spacing • with side-by-side mounting forwards 10 mm uywards 10 mm downwards 10 mm at the side 0 mm downwards 10 mm downwards 0 mm downwards 0 mm downwards 0 mm at the side 6 mm at oncotact 5 cow-type terminals at the side 6 mm at downards 2 cost	width	45 mm
• with side-by-side mounting forwards10 mm downwards10 mm downwards0 mm downwards10 mm downda10 mm dowards10 mm dowards10 mm upwards10 mm dowards10 mm dowards50 mm- dowards10 mm dowards50 mm- for main cortacts2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² - for dowards50 s 4 mm ² - eoild or standed50 s 4 mm ² - eoild or standed50 s 4 mm ² - eoidd or standed52 s 2.5 mm ³ , 2x 4 mm ⁴ - eoidd or standed52 s 2.5 mm ³ , 2x 4 mm ⁴ - eoidd or standed52 s 1.5 mm ³ , 2x (0.75 2.5 mm ³ , 2x 4 mm ⁴ - eoidd	depth	73 mm
	required spacing	
	 with side-by-side mounting 	
- downwards 10 mm - at the side 0 mm - forwards 10 mm - brwards 10 mm - upwards 0 mm - downwards 0 mm - downwards 10 mm - downwards 50 mm - for auxiliary contacts Screw-type terminals - for main contacts Screw-type terminals - olid or standed 2x (0.51.5 mm ³), 2x (0.7525 mm ³), 2x 4 mm ² - solid or standed 2x (0.515 mm ³), 2x (0.7525 mm ³), 2x 4 mm ² - onled vith core end processing 0.54 mm ² - onley str	— forwards	
	— upwards	10 mm
• for grounded parts0- forwards10 mm- unwards0 mm- at the side6 mm- downwards10 mm- downwards10 mm- downwards10 mm- unwards10 mm- unwards10 mm- unwards10 mm- unwards10 mm- downwards10 mm- downwards50 mm- downwards50 mm- downwards50 mm- downwards50 mm- for axiliary and control draut50 mm- ofid2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ⁴), 2x 4 mm ⁴ - solid or stranded2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ⁴), 2x 4 mm ⁴ - solid or stranded0.5 4 mm ⁴ - finely stranded with core end processing0.5 4 mm ⁴ - finely stranded with core end processing0.5 4 mm ⁴ - finely stranded with core end processing0.5 4 mm ⁴ - finely stranded with core end processing0.5 4 mm ⁴ - finely stranded with core end processing0.5 4 mm ⁴ - fo		
- forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - for live parts 10 mm - upwards 10 mm - downwards 50 mm Connectable conductor focult screw-type terminals - of or axiliary and control circuit screw-type terminals - of do down for axidiary and control circuit screw-type terminals - of do down for axidiary and control circuit screw-type terminals - of do down for axidiary and control circuit screw-type terminals - of do down for axidiary and control circuit screw-type terminals - of do do stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² - of axidiary contacts 2x (0.5 1.5 mm ²		0 mm
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• for live parts 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm Connectional Terminals 0 mm • for main current circuit screw-type terminals • for main current circuit screw-type terminals • of main current circuit screw-type terminals • of main contacts Screw-type terminals • for aux		
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upwards 10 mm downwards 10 mm downwards 10 mm art he side 6 mm Connections/Terminals 5 mm type of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • of main contacts - solid - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 2.5 4 mm²		
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type of electrical connection for main current circuit for auxiliary contacts of auxiliary contacts of magnet coil screw-type terminals screw-type terminals screw-type terminals screw-type terminals screw-type terminals screw-type terminals of main contacts - solid - solid or stranded - for main contacts - solid or stranded - for main contacts - solid or stranded - for main contacts - solid or stranded - s		6 mm
• for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coll Screw-type terminals type of connectable conductor cross-sections - • of main contacts - - solid 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ² - finely stranded with core end processing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ² • for AWG cables for main contacts - • solid 0.5 4 mm ³ • solid 0.5 4 mm ³ • solid or stranded 0.5 4 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • for auxiliary contacts - • for auxiliary contacts - • for auxiliary contacts - • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³		
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• at contactor for auxiliary contacts Screw-type terminals • of magnet coll Screw-type terminals type of connectable conductor cross-sections - solid - solid - solid 2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³), 2x 4 mm² - solid - fively stranded with core ond processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid - fively stranded with core ond processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • or AdVG cables for main contacts 2x (20 16), 2x (18 14), 2x 12 connectable conductor cross-section for main contacts 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) <		
• of magnet coll Screw-type terminals type of connectable conductor cross-sections - • or main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²) • of auxiliary contacts 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • of auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² <td>-</td> <td></td>	-	
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service life maximum 20 a	· · · · · · · · · · · · · · · · · · ·	
test wear-related service life necessary Yes		
proportion of dangerous failures		

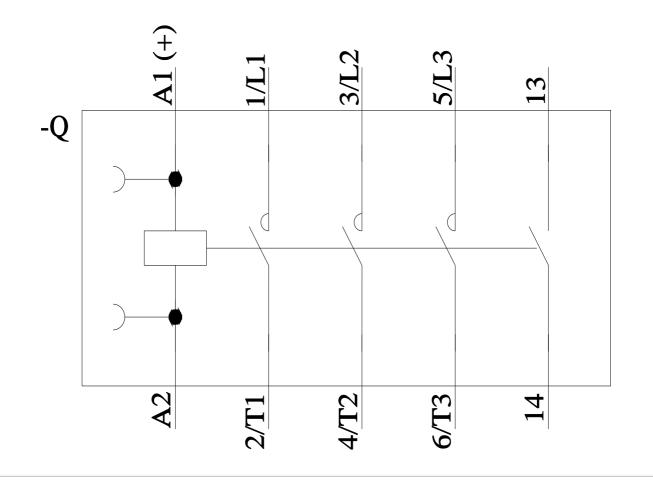
 with low demand 	d rate according to SN 319	920	40 %			
with high demand rate according to SN 31920		73 %				
B10 value with high d	B10 value with high demand rate according to SN 31920		1 000 000			
failure rate [FIT] with I 31920			100 FIT			
ISO 13849						
device type according	g to ISO 13849-1		3			
overdimensioning according to ISO 13849-2 necessary		Yes				
IEC 61508						
safety device type according to IEC 61508-2		Туре А				
Electrical Safety						
protection class IP on the front according to IEC 60529		IP20				
touch protection on the front according to IEC 60529		finae	finger-safe, for vertical contact from the front			
Approvals Certificates	Ŭ		0			
General Product App	roval					
General Froduct App	loval					
CE EG-Konf.	UK CA	<u>Confirmatio</u>	<u>n</u>			KC
General Product Approval	EMV	Functional Sat	ftey	Test Certificates		
EHC	RCM	<u>Type Examinatic</u> tificate	on Cer-	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	<u>Miscellaneous</u>
Marine / Shipping						
Marine / Shipping	BUREAU VERITAS			PRS	RINA	RMRS
	BUREAU VERITAS	Railway		PRS Dangerous goods	RINA Environment	KMRS
ABS	Confirmation		ertific-	PRS Dangerous goods Transport Information	Environment	Environmental Confirmations
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