SIEMENS

Data sheet

3RT2026-2BB40



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 24 V DC 3-pole, Size S0 Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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	4.8 W
per pole	1.6 W
power loss [W] for rated value of the current without load current share typical	5.9 W
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 acc. 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	15g / 5 ms, 10g / 10 ms
mechanical service life (switching cycles)	
 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
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +60 °C
 ambient temperature during storage 	-55 +80 °C
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
operational current	



• at AC-1 at 400 V at ambient temperature 40 °C rated value40 A- up to 690 V at ambient temperature 40 °C reted value40 A- up to 690 V at ambient temperature 60 °C reted value55 A- at 400 V rated value25 A- at 500 V rated value13 A- at 600 V rated value13 A- at 600 V rated value55 A- at 600 V rated value20.7 A- at 600 V rated value20.7 A- at 600 V rated value20.7 A- at 600 V rated value20.2 A- up to 230 V for current peak value n=20 rated value20.2 A- up to 500 V for current peak value n=20 rated value20.2 A- up to 500 V for current peak value n=20 rated value13.5 A- up to 500 V for current peak value n=30 rated value13.5 A- up to 500 V for current peak value n=30 rated value13.5 A- up to 500 V for current peak value n=30 rated value13.5 A- up to 500 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value13.5 A- up to 600 V for current peak value n=30 rated value
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- at 500 V rated value 18 A - at 690 V rated value 13 A • at AC-4 at 400 V rated value 15 A • at AC-5a up to 690 V rated value 25 2 A • at AC-5b up to 400 V rated value 20 7 A • at AC-6a 20.2 A - up to 230 V for current peak value n=20 rated value 20.2 A - up to 600 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 600 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 13.5 A - up to 100 V for current peak value n=30 rated value 13.5 A value 13.5 A - up to 100 V for current peak value n=30 rated value 13.5 A value 13.5 A - up to 100 V for current peak value n=30 rated value 13.5 A value 9 A - at 400 V rated value 10 mm² - at 400 V rated value 10 A
• at AC-4 at 400 V rated value 15.5 Å • at AC-5a up to 690 V rated value 25.2 Å • at AC-5a up to 400 V rated value 20.7 Å • at AC-5a
• at AC-5a up to 690 V rated value 35.2 A • at AC-5a up to 400 V rated value 20.7 A • at AC-5a up to 230 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A - up to 500 V for current peak value n=20 rated value 20.2 A • at AC-6a 12.9 A - up to 1020 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 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 13.5 A - up to 690 V for current peak value n=30 rated value 13.5 A - up to 690 V for current peak value n=30 rated value 13.5 A - up to 690 V for current peak value n=30 rated value 13.5 A - at 400 V rated value 9 A • at 690 V rated value 9 A • at 690 V rated value 14 A • at 690 V rated value 35 A - at
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at 24 V rated value35 A at 110 V rated value4.5 A at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A• with 2 current paths in series at DC-1
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at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value at 24 V rated value35 A at 110 V rated value35 A
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 at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value 35 A 35 A
with 2 current paths in series at DC-1 - at 24 V rated value 35 A - at 110 V rated value 35 A
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- 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 110 V rated value 35 A
- at 220 V rated value 35 A
at 220 V rated value35 A at 440 V rated value2.9 A
at 220 V rated value35 A at 440 V rated value2.9 A at 600 V rated value1.4 A
- at 220 V rated value 35 A - at 440 V rated value 2.9 A - at 600 V rated value 1.4 A operational current
- at 220 V rated value 35 A - at 440 V rated value 2.9 A - at 600 V rated value 1.4 A operational current
- at 220 V rated value 35 A - at 440 V rated value 2.9 A - at 600 V rated value 1.4 A operational current

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— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	8 kV·A
 up to 400 V for current peak value n=20 rated value 	13.9 kV·A
 up to 500 V for current peak value n=20 rated value 	17.4 kV·A
 up to 690 V for current peak value n=20 rated value 	15.4 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	5.3 kV·A
 up to 400 V for current peak value n=30 rated value 	9.3 kV·A
 up to 500 V for current peak value n=30 rated value 	11.6 kV·A
• up to 690 V for current peak value n=30 rated value	15.5 kV·A
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	299 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
a limited to 60 a switching at zoro surrent maximum	106 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	
no-load switching frequency	
	1 500 1/h
no-load switching frequency	
no-load switching frequency • at DC	
no-load switching frequency • at DC operating frequency	1 500 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum	1 500 1/h 1 000 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum	1 500 1/h 1 000 1/h 750 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum	1 500 1/h 1 000 1/h 750 1/h 750 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum	1 500 1/h 1 000 1/h 750 1/h 750 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum Control circuit/ Control	1 500 1/h 1 000 1/h 750 1/h 750 1/h 250 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage	1 500 1/h 1 000 1/h 750 1/h 750 1/h 250 1/h
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • 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	1 500 1/h 1 000 1/h 750 1/h 750 1/h 250 1/h DC 24 V
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 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 control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	1 500 1/h 1 000 1/h 750 1/h 250 1/h DC 24 V 0.8
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 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 operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value	1 500 1/h 1 000 1/h 750 1/h 250 1/h DC 24 V 0.8 1.1
no-load switching frequency • at DC operating frequency • at AC-1 maximum • at AC-2 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 control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	1 500 1/h 1 000 1/h 750 1/h 250 1/h DC 24 V 0.8

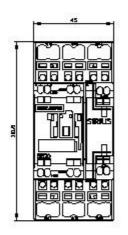
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closing delay	50 17 0 mg
• at DC	50 170 ms
opening delay	15 17 E ma
• at DC	15 17.5 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous 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 100 V rated value	1 A
	0.9 A
at 125 V rated value	
 at 220 V rated value at 600 V rated value 	0.3 A 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 	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
 for 3-phase AC motor 	
— 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	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (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
•••	

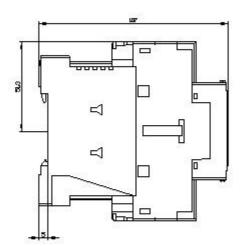
	forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail		
	according to DIN EN 60715		
 side-by-side mounting 	Yes		
height	102 mm		
width	45 mm		
depth	107 mm		
required spacing			
 with side-by-side mounting 			
— 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	10		
— 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	$2 \times (4 - 40 - 2 \times 2)$		
— solid	$2x (1 10 \text{ mm}^2)$		
 — solid or stranded finally stranded with core and processing 	$2x (1 10 \text{ mm}^2)$		
 — finely stranded with core end processing — finely stranded without core end processing 	$2x (1 6 mm^2)$		
at AWG cables for main contacts	2x (1 6 mm²) 2x (18 8)		
connectable conductor cross-section for main	ZX (10 0)		
contacts			
• solid	1 10 mm²		
• stranded	1 10 mm²		
 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 mm ²		
finely stranded with core end processing	0.5 1.5 mm ²		
finely stranded without core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts solid or stranded	$2x (0.5 - 2.5 \text{ mm}^2)$		
 — solid or stranded finally stranded with core and processing 	$2x (0.5 \dots 2.5 \text{ mm}^2)$		
 finely stranded with core end processing finely stranded without core and processing 	$2x (0.5 \dots 1.5 \text{ mm}^2)$		
 finely stranded without core end processing at AWG cables for auxiliary contacts 	2x (0.5 2.5 mm ²) 2x (20 14)		
AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor	18 8		
AWG number as coded connectable conductor cross section for auxiliary contacts	20 14		
Safety related data			
B10 value with high demand rate acc. to SN 31920	1 000 000		

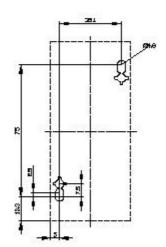


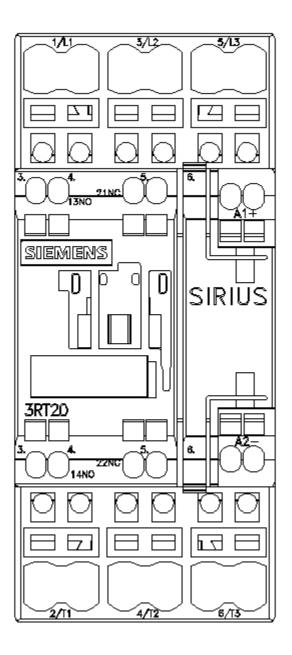
proportion of dangerou	is failures				
 with low demand rate 	• with low demand rate acc. to SN 31920 40 %				
 with high demand r 	rate acc. to SN 319	920	73 %		
failure rate [FIT] with low	demand rate acc.	to SN 31920	100 FIT		
product function					
 mirror contact acc. 	to IEC 60947-4-1		Yes		
T1 value for proof test i IEC 61508	interval or service	e life acc. to	20 у		
protection class IP on t	the front acc. to IE	EC 60529	IP20		
touch protection on the front acc. to IEC 60529			finger-safe, for vertical cont	act from the front	
suitability for use safety-r	related switching O)FF	Yes		
ertificates/ approvals					
General Product Appro	oval				EMC
			<u>KC</u>	EAC	RCM
Declaration of Conform	nity	Test Certificate	9S		Marine / Shipping
<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Miscellaneous</u>	ABS
Marine / Shipping	Lloyds Kegister uis	PRS	RINA	KMRS	DNV-GL DNU-GL
other					
Confirmation					
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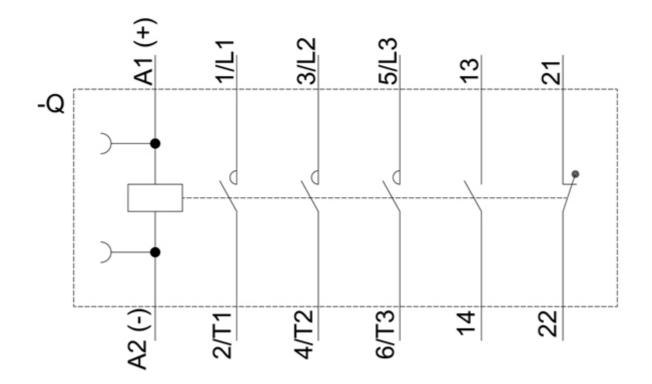












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