SIEMENS

Data sheet

3RT2017-1BP41



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 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 	1.5 W
 at AC in hot operating state per pole 	0.5 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	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
 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)	
Weight	0.292 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 Product Declaration(EPD) Yes Global Warming Potential (CO2 eq) dotal 153 kg Global Warming Potential (CO2 eq) during manufacturing 142 kg Global Warming Potential (CO2 eq) during queetion 152 kg Global Warming Potential (CO2 eq) during queetion 152 kg number of poles for main current circuit 3 number of NO contacts for main contacts 3 operating voltage 680 V • at AC-3 rated value maximum 680 V • at AC-1 22 A - up to 680 V at ambient temperature 40 °C rated value 22 A - up to 680 V at ambient temperature 60 °C rated value 22 A - at 800 V rated value 12 A - at 800 V rated value 92 A - at 800 V rated value 92 A - at 800 V rated value 92 A - at 600 V rated value 92 A - at 800 V rated value 85 A - at 800 V rated value 92 A - at 800 V rated value 92 A - at 900 V rated value 92 A - at 900 V rated value 85 A - at 900 V rated value 72 A - at 900 V rated value	Environmental footprint	
Global Warning Potential [CO2 eq] duing manufacturing 142 kg Global Warning Potential [CO2 eq] duing manufacturing 142 kg Global Warning Potential [CO2 eq] after end of life -0.305 kg Main circuit 3 number of NO contacts for main current circuit 3 oporating voltage		Yes
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minimum cross-section in main circuit at maximum AC-1 rated value 4 mm² operational current for approx. 200000 operating cycles at AC-4 4.1 A		
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 4.1 A		
• at 400 V rated value 4.1 A	value	4 mm [*]
	AC-4	
at 690 V rated value 3.3 A		
		3.3 A
operational current		
at 1 current path at DC-1	-	20.4
- at 24 V rated value 20 A		
 at 60 V rated value at 110 V rated value 20 A 2.1 A 		
- at 110 V rated value 2.1 A - at 220 V rated value 0.8 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	-	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	— at 600 V rated value	0.7 A

a with 2 autrent notice in carico at DC 4	
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	1A
• 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-2 at 400 V rated value	5.5 kW
• 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	8 kVA
operating apparent power at AC-6a	
 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 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 	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40.000 4/6
• at DC	10 000 1/h
operating frequency	1 000 1/b
• at AC-1 maximum	1 000 1/h 750 1/h
• at AC-2 maximum	750 1/h 750 1/h
• at AC-3 maximum	750 1/h

● at AC-3e maximum	750 1/h
at AC-3e maximum at AC-4 maximum	250 1/h
Control circuit/ Control	250 1/11
	DC
type of voltage of the control supply voltage	230 V
control supply voltage at DC rated value	230 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	1
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	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	1A
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	11 A
at 480 V rated value at 600 V rated value	11 A 11 A
at 600 V rated value vielded mechanical performance [hp]	
yielded mechanical performance [hp] • for single-phase AC motor	
tor single-phase AC motor — at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
for 3-phase AC motor	- nk
- at 200/208 V rated value	3 hp
- at 220/230 V rated value	3 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
Short-circuit protection	
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)

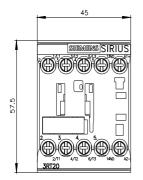
- with type of assignment 2 required

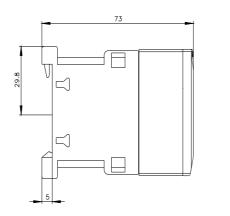
• for short-circuit protection of the auxiliary switch required

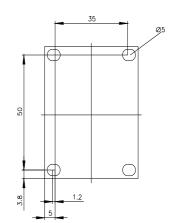
gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)

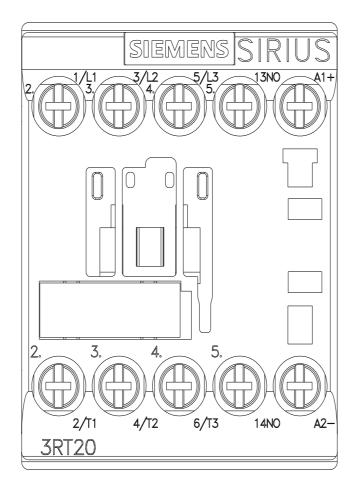
+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
58 mm
45 mm
73 mm
10 mm
10 mm
10 mm
0 mm
10 mm
10 mm
6 mm
10 mm
10 mm
10 mm
10 mm
6 mm
screw-type terminals
screw-type terminals
Screw-type terminals
Screw-type terminals
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ²
2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
2x (20 16), 2x (18 14), 2x 12
0.5 4 mm²
0.5 4 mm ²
0.5 2.5 mm ²
0.5 2.5 mm
0.5 4 mm²
0.5 4 film ²
$2x (0.5 - 1.5 mm^2) 2x (0.75 - 2.5 mm^2) 2x 4 mm^2$
2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
2x (20 16), 2x (18 14), 2x 12
20 12
20 12
Yes; with 3RH29
100, WILL DIVILLO
No
No
Yes

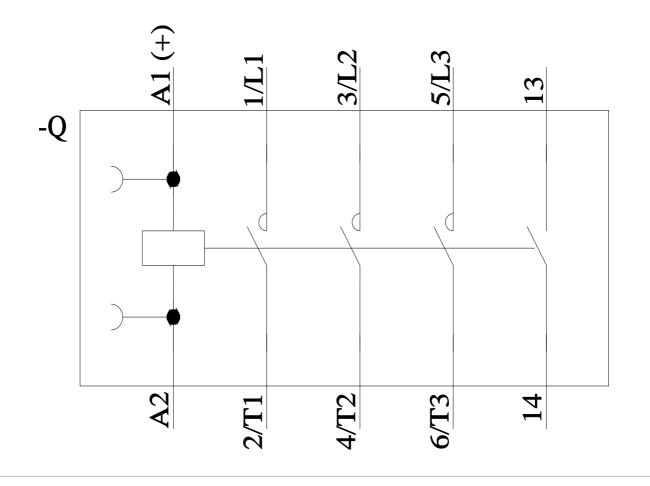
	ous failures					
	1 1 1 1 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	~	10.01			
	d rate according to SN 319		40 %			
-	nd rate according to SN 31		73 %			
	lemand rate according to		1 000 (
failure rate [FIT] with 31920	low demand rate accord	ing to SN	100 FI	Т		
ISO 13849						
device type according to ISO 13849-1		3				
overdimensioning according to ISO 13849-2 necessary		Yes				
IEC 61508						
safety device type ac	cording to IEC 61508-2		Туре А	A		
Electrical Safety						
protection class IP or	n the front according to I	EC 60529	IP20			
touch protection on t	he front according to IEC	60529	finger-	safe, for vertical contact	from the front	
oprovals Certificates						
General Product App	proval					
CE EG-Konf.	UK CA	<u>Confirmation</u>	n			KC
General Product Ap- proval	EMV	Functional Saf	tey	Test Certificates		Marine / Shipping
EHC	RCM	<u>Type Examinatio</u> <u>tificate</u>	n Cer-	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping						other
Marine / Shipping		PRS		RINA	RMRS	other Miscellaneous
Marine / Shipping	Č DNV Railway	PRS Dangerous goo	ods	Environment	KMRS	
BUREAU VERITAS		Prs Dangerous goo		Environment	Environmental Con- firmations	
other Confirmation Information on the pa https://support.industry Information- and Dow https://www.siemens.co	Railway <u>Special Test Certific-ate</u> ackaging <u>siemens.com/cs/ww/en/vi</u> <u>vnloadcenter (Catalogs, Bom/ic10</u> ordering system)	Transport Inform	nation	EPD		
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