SIEMENS

Data sheet

3RT2017-1AF01



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, 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 	1.5 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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	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)	10/01/2009
Weight	0.231 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	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 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	20 A
• 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	
 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 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 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
 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	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	2.5 KW
up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 200 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 500 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 200 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 500 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
 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	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

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	orward and
- 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 4609 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 35A (415V,80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V	orward and
- 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 - with type of coordination 1 required gG: 50A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 8C) - with type of coordination 1 required gG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C) - with type of assignment 2 required gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C) - with type of assignment 2 required gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C) - for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted f backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm	orward and
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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,80 - with type of assignment 2 required e for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 e 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 f backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	orward and
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 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,80 gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted fbackward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth required spacing with side-by-side mounting 	orward and
- with type of coordination 1 requiredgG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80- with type of assignment 2 requiredgG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions+/-180° rotation possible on vertical mounting surface; can be tilted f backward by +/- 22.5° on vertical mounting surfacefastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN backward by +/- 22.5° on vertical mounting to DIN rail according to DIN fastening methodwidth45 mmdepth73 mmrequired spacing • with side-by-side mounting	orward and
with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8 • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height width 45 mm depth 73 mm required spacing • with side-by-side mounting	orward and
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted f mounting position +/-180° rotation possible on vertical mounting surface; can be tilted f fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	prward and
Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted f fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted f fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	
backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 58 mm width 45 mm depth 73 mm required spacing with side-by-side mounting	
height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	EN 60715
width 45 mm depth 73 mm required spacing • with side-by-side mounting	
width 45 mm depth 73 mm required spacing • with side-by-side mounting	
with side-by-side mounting	
with side-by-side mounting	
with side-by-side mounting	
— 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 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	
type of connectable conductor cross-sections	
for main contacts	
— solid 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²	
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
• for AWG cables for main contacts 2x (20 16), 2x (18 14), 2x 12	
connectable conductor cross-section for main contacts	
• solid 0.5 4 mm ²	
• stranded 0.5 4 mm ²	
• finely stranded with core end processing 0.5 2.5 mm ²	
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 mm ²	
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²	
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12	
AWG number as coded connectable conductor cross	

section						
 for main contacts 			20 1	12		
 for auxiliary contact 	cts		20 1			
Safety related data						
product function						
 mirror contact acc 	ording to IEC 60947-4-	-1	Yes; w	vith 3RH29		
 positively driven or 	peration according to I	EC 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 servic	est wear-related service life necessary		Yes			
proportion of dangerou	ıs failures					
 with low demand r 	rate according to SN 37	1920	40 %			
with high demand rate according to SN 31920		73 %				
	B10 value with high demand rate according to SN 31920		1 000			
failure rate [FIT] with lo 31920	w demand rate accor	ding to SN	100 FI	Т		
ISO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acco		necessarv	Yes			
IEC 61508						
safety device type acco	ording to IEC 61508-2		Туре А	A		
Electrical Safety						
protection class IP on t	the front according to	IEC 60529	IP20			
touch protection on the	e front according to I	EC 60529	finger-	safe, for vertical conta	t from the front	
Approvals Certificates						
General Product Appro	oval					
		UK CF		ccc	UL	
General Product Ap-	EMV	Functional Sa	•	ccc Test Certificates	ŰĽ	Marine / Shipping
General Product Approval			aftey	CCC Test Certificates Type Test Certific- ates/Test Report	UL Special Test Certific- ate	Marine / Shipping
	EMV ECM	Functional Sa	aftey	Type Test Certific-		Marine / Shipping
proval	EMV ECM RCM	Functional Sa	aftey	Type Test Certific-		ABS
proval	RCM	Functional Sa	aftey	Type Test Certific-		ABS
proval EEEE Marine / Shipping	RCM	Functional Sa Type Examination tificate	aftey	Type Test Certific- ates/Test Report		ABS
proval EEREC Marine / Shipping	Confirmation	Functional Sa Type Examination tificate Understand Understand Understand Understand Image: Comparison of the second s	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFFEC Marine / Shipping	Kaging	Functional Sat Type Examination tificate Image: state state Railway Special Test Calate ate	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFRE Marine / Shipping WEREAU VERITAS other Confirmation Eurther information	Confirmation kaging	Functional Sat Type Examination tificate Image: Special Test Call ate Vyiew/109813875	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFFE Marine / Shipping WEREAU UTEAU Confirmation Eurther information Information on the pac https://support.industry.s Information - and Down https://www.siemens.com	Kaging immens.com/cs/vw/en/ loadcenter (Catalogs n/ic10	Functional Sat Type Examination tificate Image: Special Test Call ate Vyiew/109813875	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFRE Marine / Shipping	Kaging iemens.com/cs/ww/en/ Ioadcenter (Catalogs n/ic10 rdering system)	Functional Sa Type Examination tificate Railway Special Test Co ate Aview/109813875 , Brochures,)	aftey ion Cer-	Type Test Certificates/Test Report Image: Construction of the second s	ate	ABS

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AF01

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

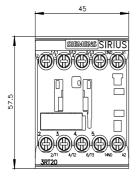
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01

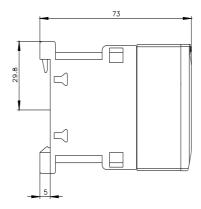
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1AF01&lang=en

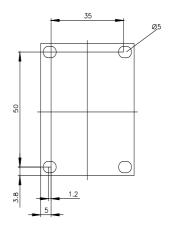
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01/char

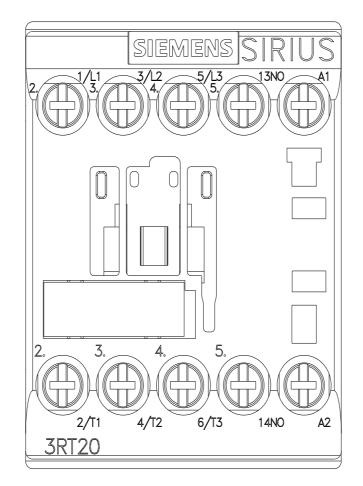
Further characteristics (e.g. electrical endurance, switching frequency)

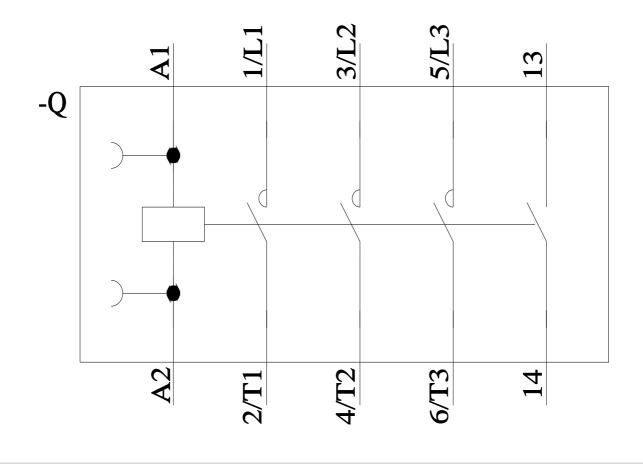
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