SIEMENS

Data sheet

3RT2038-1AN20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	17.1 W
 at AC in hot operating state per pole 	5.7 W
 without load current share typical 	17.2 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
● at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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	
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	90 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 °C rated	80 A
value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	79.2 A
 at AC-5b up to 400 V rated value at AC-6a 	66.4 A
	70 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 — up to 500 V for current peak value n=20 rated value 	70 A 70 A
— up to 500 V for current peak value n=20 rated value	58 A
• at AC-6a	50 A
 up to 230 V for current peak value n=30 rated value 	46.7 A
— up to 200 V for current peak value n=30 rated value	46.7 A
— up to 500 V for current peak value n=30 rated value	46.7 A
— up to 690 V for current peak value n=30 rated value	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated	35 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	30 A
at 690 V rated value	24 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	15.8 kW
at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	27.8 kVA
	48.4 kVA
 up to 400 V for current peak value n=20 rated value 	
• up to 500 V for current peak value n=20 rated value	60.6 kVA
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	60.6 kVA 69.3 kVA
 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	69.3 kVA
 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 	69.3 kVA 18.6 kVA
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 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 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 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA 55.8 kVA
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 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 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 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 peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	69.3 kVA 18.6 kVA 32.3 kVA 40.4 kVA 55.8 kVA 1 298 A; Use minimum cross-section acc. to AC-1 rated value 898 A; Use minimum cross-section acc. to AC-1 rated value
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
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	10.4
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	1 faulty switching per 100 million (17 V, 1 mA)
	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	65 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	65 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	65 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	65 A

	— at 230 V rated value	15 hp		
	— at 220/230 V rated value	25 hp		
contact strains of auxiliary contacts according to UL A600 / P600 Short-straul protection of the main circuit	— at 460/480 V rated value	50 hp		
Short-citual protection design of the fuse link • for short-citual protection of the main circuit - with type of assignment 2 required - for short-circul protection of the auxiliary witch required - for short-circul protection of the auxiliary witch required - for short-circul protection of the auxiliary witch required - for short-circul protection of the auxiliary witch required - for short-circul protection of the auxiliary witch required - for victal mounting surface; - for wards - for wards - for wards - downwards - downwards - for wards - downwards - downwards - for wards - downwards - for wards - for	— at 575/600 V rated value	60 hp		
design of the fue lak for short-circuit protection of the quind g2: 250 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) for short-circuit protection of the quointary switch required g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (690 V, 100 kA), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (500 V, 10A), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (500 V, 10A), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (500 V, 10A), aM: 150 A (690 V, 100 kA), BS88: 1255 A (415V 201A) g2: 10 A (500 V, 10A) g2: 10 A (500 V, 10A) g2: 10 A (500 V, 10A) g2: 10 A (500 V, 10A)	contact rating of auxiliary contacts according to UL	A600 / P600		
- for short-sinci protocol or squired - with type of coordination 1 required - with type of assignment 2 r	Short-circuit protection			
	design of the fuse link			
iki iki with type of assignment 2 required GC: 1004 (600V, 100kA), ibit: 80A (600V, 100kA), BSBE: 125A (415V:80kA) is stant-circuit protection of the auxiliary switch required gC: 10A (600V, 10kA), ibit: 80A (600V, 100kA), BSBE: 125A (415V:80kA) installation/mounting/ dimensions +/180" rotation possible on vertical mounting surface; can be litted forward and backward by +/-2.2" on vertical mounting surface; is disclay, side mounting +/180" rotation possible on vertical mounting surface; is disclay, side mounting 114 mm witch 85 mm degth 130 mm required spacing 114 mm witch 85 mm - downwards 10 mm	 for short-circuit protection of the main circuit 			
• or stort-circuit protection of the auxiliary switch required installation mounting definemations 9G: 10 A (600 V, 1 kA) Installation mounting definemations ***40° rotation possible on vertical mounting surface; can be litted forward and backward by +* 2.25° on vertical mounting surface; can be litted forward and backward by +* 2.25° on vertical mounting surface; can be litted forward and mounting surface festening method 55 mm • side-by-side mounting Yes required spacing 114 mm • with side-by-side mounting 0 mm - upwards 10 mm - upwards 10 mm - downwards 6 mm - downwards 6 mm - downwards 70 mm - downwards 70 mm - dowards 10 mm <tr< td=""><td>- with type of coordination 1 required</td><td></td></tr<>	- with type of coordination 1 required			
Installation/ mounting/ climensions +*-160° rotation possible on vertical mounting surface; can be tilled forward and backward by +*-2.23° on vertical mounting surface; serve and snap-on mounting onto 35 mm DN roll according to DIN EN 60715 height 114 mm width 65 mm depth 130 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm	 — with type of assignment 2 required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)		
mounting position +f160° rotation possible on vertical mounting surface: fastening method screw and snap-on mounting units surface: • side-by-side mounting Yes height 114 mm width 55 mm • depth 130 mm required spacing • • with side by-side mounting 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm <t< td=""><td> for short-circuit protection of the auxiliary switch required </td><td>gG: 10 A (500 V, 1 kA)</td></t<>	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
mounting position +f160° rotation possible on vertical mounting surface: fastening method screw and snap-on mounting units surface: • side-by-side mounting Yes height 114 mm width 55 mm • depth 130 mm required spacing • • with side by-side mounting 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm <t< td=""><td>Installation/ mounting/ dimensions</td><td></td></t<>	Installation/ mounting/ dimensions			
Setsing method backward by y-225° on vertical mounting sufface side-by-side mounting Yes height 114 nm width 55 mm depth 130 nm required spacing - - forwards 10 mm - ownards 10 mm - downards		+/-180° rotation possible on vertical mounting surface: can be tilted forward and		
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing - - forwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 5 mm - for rain current circuit screw-type terminals - for rain current circuit screw-type terminals of ra and current circuit screw-type terminals of rain current circuit screw-type terminals				
height 114 mm width 55 mm depth 130 mm required spacing 10 mm - drowards 10 mm - upwards 10 mm - drowards 0 mm - drowards 0 mm - drowards 10 mm <td>fastening method</td> <td>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td>	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
with 55 mm depth 130 mm required spacing 130 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - doratcital connection screw-type terminals for auxilary and control circuit screw-type terminals i for auxilary and control circuit screw-type terminals i for auxilary and control circuit screw-type terminals i for auxilary and control circuit screw-typ	 side-by-side mounting 	Yes		
depth 130 mm required spacing	height	114 mm		
depth 130 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - for grounded parts 10 mm - downwards 10 mm - upwards 10 mm - at the side 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxiliary and control circuit screw-type terminals sold or stranded screw-type terminals sold or stranded 2x (1 35 mm²), 1x (1 30 mm²) e finely stranded with core end processing 2x (1 35 mm²) <td< td=""><td>÷</td><td>55 mm</td></td<>	÷	55 mm		
required spacing • with side-by-side mounting forwards 10 mm upwards 10 mm downwards 0 mm downwards 0 mm downwards 10 mm downwards 10 mm forwards 10 mm forwards 10 mm upwards 10 mm downwards 10 mm of adwallary and control circuit screw-type terminals <td></td> <td>130 mm</td>		130 mm		
• with side-by-side mountingI- forwards10 mm- upwards10 mm- dommwards00 mm- at the side0 mm- at the side10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- dommwards10 mm- dommwards5 crew-type terminals- dommwards6 mm- dommwards5 crew-type terminals- dommerational torol5 crew-type terminals- dommerational torol5 crew-type terminals- of magnet coli5 crew-type terminals- of magnet coli5 crew-type terminals- of magnet coli5 crew-type terminals- finely stranded with core end processing135 mm ³ , 1x (150 mm ³)- finely stranded with core end processing0.52.5 mm ³ - solid or stranded52.5 mm ³ - solid or stranded2x (0.51.5 mm ³ , 2x (0.752.5 mm ³)- ender conductor cross-sections solid or stranded2x (0.51.5 mm ³ , 2x (0.752.5 mm ³)- ender cautiliary contacts2x (0.51.5 mm ³ , 2x (0.752.5 mm ³)- ende	•			
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AWG number as coded connectable conductor cross section • for main contacts 18 1				
• for main contacts 18 1	· ·	2x (20 16), 2x (18 14)		
	section			
• for auxiliary contacts 20 14				
	 for auxiliary contacts 	20 14		

fety related data						
product function						
	ccording to IEC 60947-4-1	Y				
	operation according to IEC		-			
	mand rate according to SN	1 31920 1	000 000			
proportion of danger						
	d rate according to SN 319) %			
	nd rate according to SN 319		3 %			
	ow demand rate according		00 FIT			
1 value for proof test	interval or service life acco	rding to IEC 20) a			
protection class IP or	n the front according to I	EC 60529 IP	IP20			
ouch protection on t	he front according to IEC	60529 fir	nger-safe, for vertical contact	from the front		
uitability for use						
 safety-related sy 	witching OFF	Y	es			
rtificates/ approvals						
General Product App	proval					
(SP) Em		<u>Confirmation</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Cor	Iformity	Test Certificates		
	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific</u> ates/Test Report	
Marine / Shipping						
ABS	B UREAU VERITAS		Llovd's Register urs	PRS		
Marine / Shipping	other		Railway	Dangerous Good	Environment	
	<u>Confirmation</u>	Confirmation	Vibration and Shock	Transport Information	Environmental Co firmations	
RMRS						

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2038-1AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1AN20

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

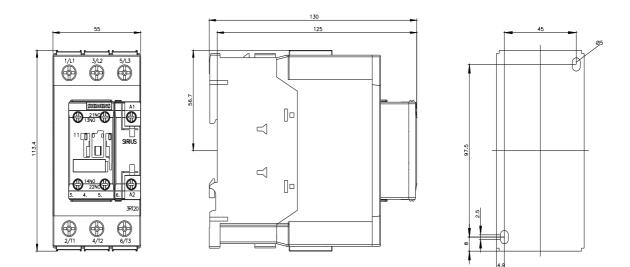
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AN20

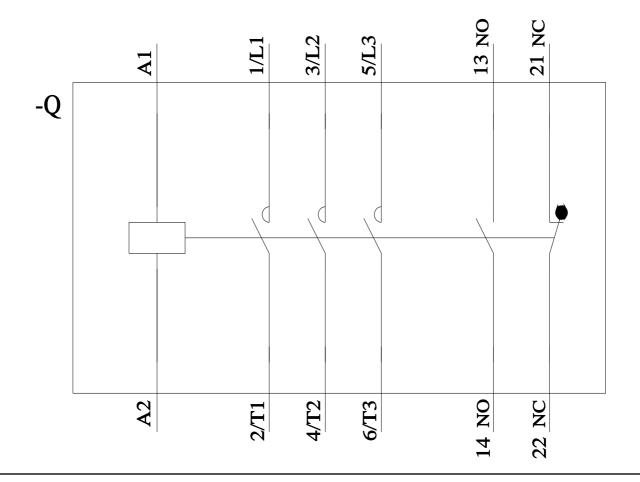
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
```

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1AN20&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AN20/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1AN20&objecttype=14&gridview=view1





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