SIEMENS

Data sheet

3RT2017-2AN22



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

200 A	
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	0.257 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 at AC-1 	22 A
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	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 19.4 A
 at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value 	9.9 A
• at AC-6a	5.5 A
 up to 230 V for current peak value n=20 rated value 	7.2 A
— 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 20 A
— at 100 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

a with 2 autrent notion in partice at DC 1				
with 3 current paths in series at DC-1 — at 24 V rated value	20 A			
— at 60 V rated value				
— at 110 V rated value	20 A 20 A			
— at 220 V rated value	20 A 20 A			
— at 440 V rated value	20 A 1.3 A			
	1.3 A 1 A			
— at 600 V rated value	TA			
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 10 V rated value	0.15 A			
	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			
	0.35 A			
 — at 110 V rated value with 3 current paths in series at DC-3 at DC-5 	0.55 A			
- at 24 V rated value	20 A			
— at 60 V rated value	20 A 20 A			
— at 10 V rated value	20 A 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	V.2 A			
at AC-2 at 400 V rated value	5.5 kW			
• at AC-3	0.0 KW			
— 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				
Imited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value			
Imited 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/h			
• at AC	10 000 1/h			
operating frequency	1,000,1/b			
• at AC-1 maximum	1 000 1/h			
at AC-2 maximum at AC-3 maximum	750 1/h 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	
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	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.8
• at 50 Hz	0.75
	0.15
apparent holding power of magnet coil at AC • at 50 Hz	5.7 VA
at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC 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
-	10 A 3 A
• at 230 V rated value	
at 230 V rated valueat 400 V rated value	3 A
 at 230 V rated value at 400 V rated value at 500 V rated value 	3 A 2 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 	3 A 2 A
at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	3 A 2 A 1 A
at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value	3 A 2 A 1 A 10 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value 	3 A 2 A 1 A 10 A 6 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value Operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
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 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 25 V rated value at 260 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 200 V r	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A
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— at 110/120 V rated value	0.5 hp			
— at 230 V rated value	2 hp			
 for 3-phase AC motor 				
— 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 ${\rm V}$	C characteristic: 10 A; 0.4 kA			
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	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (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 side-by-side mounting	Yes			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	70 mm			
width	45 mm			
depth	73 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				
— 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			
	Spring-type terminals			
type of connectable conductor cross-sections				
for main contacts	0. (0.5 4 mm ²)			
— solid	2x (0.5 4 mm ²)			
— solid or stranded	2x (0,5 4 mm ²)			
— finely stranded with core end processing	2x (0.5 2.5 mm ²)			
— finely stranded without core end processing	2x (0.5 2.5 mm ²)			
for AWG cables for main contacts	2x (20 12)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm ²			
stranded	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
 finely stranded without 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 mm²			

 finely stranded v 	vithout core end processi	ng 0.	.5 2.5 mm²			
•	conductor cross-section					
 for auxiliary cont 	tacts					
- solid or stra	anded	22	x (0,5 4 mm²)			
— finely stran	ded with core end proces	sing 2	x (0.5 2.5 mm²)			
- finely stran	ded without core end pro	cessing 2	x (0.5 2.5 mm²)			
 for AWG cables 	for auxiliary contacts	22	x (20 12)			
AWG number as code	ed connectable conduct	or cross				
section						
 for main contact 			0 12			
 for auxiliary cont 	tacts	20	0 12			
Safety related data						
product function						
 mirror contact ad 	ccording to IEC 60947-4-	1 Y	es			
 positively driven 	operation according to IE	EC 60947-5-1 N	0			
 suitable for safe 	ty function	Y	es			
suitability for use safet	y-related switching OFF	Y	es			
service life maximum	1	20) a			
test wear-related serv	-	Y	es			
proportion of danger	ous failures					
 with low demand 	d rate according to SN 31	920 40	D %			
 with high deman 	nd rate according to SN 3	1920 73	73 %			
B10 value with high c	lemand rate according t	o SN 31920 1	000 000			
failure rate [FIT] with 31920	low demand rate accord	ding to SN 10	D0 FIT			
ISO 13849						
device type according	g to ISO 13849-1	3				
overdimensioning ac	cording to ISO 13849-2	necessary Y	Yes			
IEC 61508						
safety device type ac	cording to IEC 61508-2	T	уре А			
Electrical Safety						
protection class IP or	n the front according to	IEC 60529 IF	IP20			
touch protection on t	he front according to IE	C 60529 fir	finger-safe, for vertical contact from the front			
Approvals Certificates	-					
General Product App	proval					
	CE	<u>UK</u>	<u>Confirmation</u>	ሠ	<u>KC</u>	
ccc	EG-Konf.	CH		UL		
Concert Dury 1 of C						
General Product Approval	EMV	Test Certificates		Marine / Shipping		
rnr	A	Special Test Certific ate	<u>c- Type Test Certific-</u> ates/Test Report			
EAC				ABS		
	1.554 (7)			-162	VERITAS	
Marine / Shipping					other	
		-			Mic 9	
<u>Å</u> گ	Lloyds	(3)			Miscellaneous	
DNV	Register					
DNV	LRS	PRS	RINA	RMRS		
other		Railway	Environment			

Confirmation

Confirmation

Special Test Certificate



Environmental Confirmations

Further information

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=3RT2017-2AN22

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2AN22

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN22

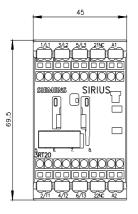
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

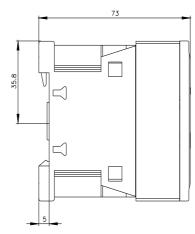
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2AN22&lang=en

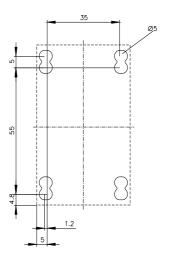
Characteristic: Tripping characteristics, I²t, Let-through current

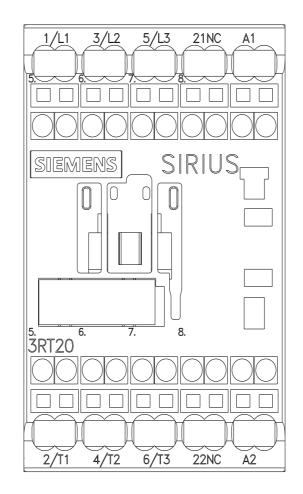
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN22/char Further characteristics (e.g. electrical endurance, switching frequency)

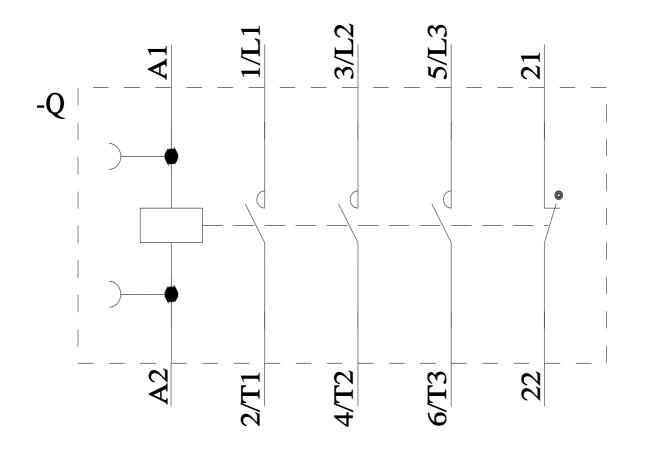
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2AN22&objecttype=14&gridview=view1











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1/31/2025