SIEMENS

Data sheet

3RT2016-1AN22



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, 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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	1.1 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 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	0.226 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	22.4
— up to 690 V at ambient temperature 40 °C rated value	22 A
 up to 690 V at ambient temperature 60 °C rated value at AC-3 	20 A
• at AC-3 — at 400 V rated value	9 A
— at 500 V rated value	9A 7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 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	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	5.3 A
— up to 400 V for current peak value n=20 rated value	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
— up to 690 V for current peak value n=20 rated value	5 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	3.5 A
— up to 400 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 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	20.4
— 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 2 overcent active in coving 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 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	20 A				
— at 24 V rated value	20 A				
— at 60 V rated value — at 110 V rated value	0.5 A				
	0.15 A				
with 2 current paths in series at DC-3 at DC-5 at 24 V reted value	20.4				
— at 24 V rated value	20 A 5 A				
— at 60 V rated value					
— at 110 V rated value	0.35 A				
with 3 current paths in series at DC-3 at DC-5 at 24 V reted value	20 A				
— at 24 V rated value	20 A 20 A				
— at 60 V rated value					
— 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				
• at AC-2 at 400 V rated value	4 kW				
• at AC-3	4 KVV				
 at AC-3 — at 230 V rated value 	2.2 kW				
— at 400 V rated value	4 kW				
— at 500 V rated value	4 KW				
— at 690 V rated value	4 KVV 5.5 kW				
• at AC-3e	5.5 KVV				
- at 230 V rated value	2.2 kW				
— at 400 V rated value	4 kW				
— at 500 V rated value	4 KW				
— at 600 V rated value	5.5 kW				
operating power for approx. 200000 operating cycles at AC-	0.0 KW				
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 kVA				
 up to 400 V for current peak value n=20 rated value 	3.6 kVA				
 up to 500 V for current peak value n=20 rated value 	4.6 kVA				
 up to 690 V for current peak value n=20 rated value 	5.9 kVA				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=30 rated value 	1.3 kVA				
 up to 400 V for current peak value n=30 rated value 	2.4 kVA				
 up to 500 V for current peak value n=30 rated value 	3.1 kVA				
 up to 690 V for current peak value n=30 rated value 	4 kVA				
short-time withstand current in cold operating state up to 40 °C					
Imited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 5 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 10 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	40.000 4/5				
• at AC	10 000 1/h				
operating frequency	1,000,1/b				
• at AC-1 maximum	1 000 1/h				
• at AC-2 maximum	750 1/h 750 1/h				
• at AC-3 maximum	750 1/h				

+ AC 2- maxim	750.4/b			
• 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	27 VA			
• at 60 Hz	27 VA 24.3 VA			
inductive power factor with closing power of the coil				
at 50 Hz	0.8			
• at 50 Hz	0.75			
apparent holding power of magnet coil at AC	0.10			
apparent holding power of magnet coll at AC • at 50 Hz	4.2 VA			
• at 50 Hz • at 60 Hz	4.2 VA 3.3 VA			
	0.0 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	0.05			
• 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			
• at 400 V rated value	3 A			
• at 400 V rated value	3 A			
at 400 V rated valueat 500 V rated value	3 A 2 A			
 at 400 V rated value at 500 V rated value at 690 V rated value 	3 A 2 A			
 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 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 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 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 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 60 V rated value at 110 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A			
 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			
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 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 at 600 V rated value operational current at DC-13 at 24 V rated value at 60 V rated value at 24 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 60 V rated value at 60 V rated value at 125 V rated value at 48 V rated value at 220 V rated value at 600 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)			
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at 110/120 V rotad value	0.22 hz				
— at 110/120 V rated value	0.33 hp				
— at 230 V rated value	1 hp				
for 3-phase AC motor					
— at 200/208 V rated value	2 hp				
— at 220/230 V rated value	3 hp				
— at 460/480 V rated value	5 hp				
— at 575/600 V rated value	7.5 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 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: 35A (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	58 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	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 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²				
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 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 mm²				
 finely stranded with core end processing 	0.5 2.5 mm²				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.5 4 mm²				
 finely stranded with core end processing 	0.5 2.5 mm²				
type of connectable conductor cross-sections					
 for auxiliary contacts 					

 — solid or stranded — finely stranded with core end processing 	ng 2×	(0.5 1.5 mm²), 2x (0.75 (0.5 1.5 mm²), 2x (0.75	2.5 mm²)	
for AWG cables for auxiliary contacts AWG number as coded connectable conductor action		: (20 16), 2x (18 14), 2:	x 12	
 section for main contacts 	20	10		
for auxiliary contacts		20 12 20 12		
Safety related data	20	/ 1Z	_	
	_			
product function	Ye			
mirror contact according to IEC 60947-4-1				
 positively driven operation according to IEC suitable for safety function 		No		
,		Yes		
suitability for use safety-related switching OFF service life maximum		Yes		
test wear-related service life necessary		20 a Yes		
	Te	:5		
proportion of dangerous failures	0 40) %		
with low demand rate according to SN 3192				
with high demand rate according to SN 3193		3 %		
B10 value with high demand rate according to		000 000		
failure rate [FIT] with low demand rate accordir 31920		0 FIT		
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 ne	cessary Ye	es		
IEC 61508				
safety device type according to IEC 61508-2	Ту	rpe A		
Electrical Safety				
protection class IP on the front according to IE	C 60529 IP	20		
touch protection on the front according to IEC	60529 fin	ger-safe, for vertical contac	t from the front	
CCC CCC CCC	UK CA	<u>Confirmation</u>	U	KC
General Product Ap- proval EMV	Test Certificates		Marine / Shipping	
	Special Test Certific ate	 <u>Type Test Certific-</u> ates/Test Report 	ABS	BUREAU VERITAS
Marine / Shipping				other
	PRS	RINA	KMRS RAME	<u>Miscellaneous</u>
other	Railway	Environment		
Confirmation Confirmation	Special Test Certific ate	EPD	Environmental Con- firmations	
Further information Information on the packaging				

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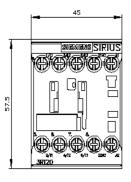
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1AN22&lang=en

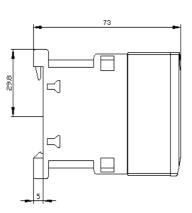
Characteristic: Tripping characteristics, I2t, Let-through current

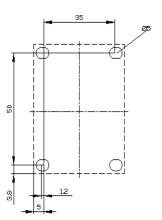
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AN22/char

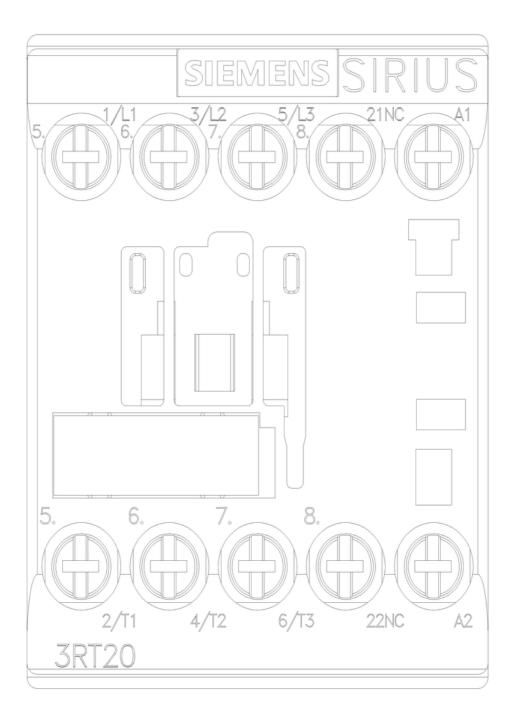
Further characteristics (e.g. electrical endurance, switching frequency)

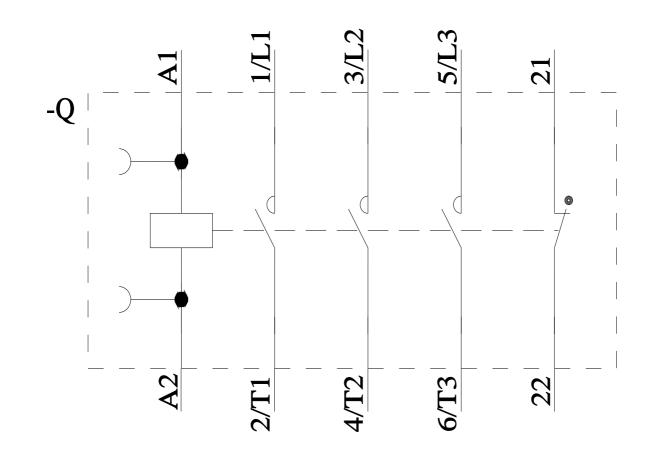
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1AN22&objecttype=14&gridview=view1











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