SIEMENS

Data sheet

3RT2016-2AF01



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00 $\,$

410 6/13 TRAS 82					
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)					
Weight	0.252 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	60 A
— up to 690 V at ambient temperature 40 °C rated value	22 A 20 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3 — at 400 V rated value	9 A
— at 500 V rated value — at 500 V rated value	9 A 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	20.4
— at 24 V rated value — at 60 V rated value	20 A 20 A
— at 100 V rated value — at 110 V rated value	20 A 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	12 A 1.6 A
— at 220 V rated value — at 440 V rated value	

- 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					
— at 10 V rated value	20 A				
— at 220 V rated value	20 A 20 A				
— at 440 V rated value					
	1.3 A 1 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					
— at 60 V rated value — at 110 V rated value	0.5 A 0.15 A				
	0.15 A				
 with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 	20.4				
— at 60 V rated value	20 A				
	5 A				
 — at 110 V rated value with 3 current paths in series at DC-3 at DC-5 	0.35 A				
with 5 current paths in series at DC-5 at DC-5 — at 24 V rated value	20 A				
	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 — at 600 V rated value	0.2 A				
	0.2 A				
operating power • at AC-3					
- at 230 V rated value	2.2 kW				
— at 400 V rated value	2.2 KW 4 KW				
— at 500 V rated value	4 kW				
- at 690 V rated value	5.5 kW				
• at AC-3e	0.0 KW				
— 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	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 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/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	750 1/h 750 1/h				
• at AC-3 maximum	750 1/h 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	AU				
at 50 Hz rated value	110 V				
at 60 Hz rated value	110 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	24.3 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.8				
• at 60 Hz	0.75				
apparent holding power of magnet coil at AC	4.0.1/4				
• at 50 Hz • at 60 Hz	4.2 VA				
• at 60 HZ inductive power factor with the holding power of the coil	3.3 VA				
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 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 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				
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 60 V rated value at 110 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 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 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 at 600 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 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 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 220 V rated value at 600 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 1 A 0.15 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 at 600 V rated value at 24 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 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 at 600 V rated value at 48 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 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 at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 26 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 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 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 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 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 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 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 220 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 10 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 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 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 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 60 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 20 V rated value at 60 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 220 V rated value at 480 V rated value at 480 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)				
 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 at 600 V rated value operational current at DC-13 at 24 V rated value at 60 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 60 V rated value at 60 V rated value at 48 V rated value at 220 V rated value at 480 V rated value at 600 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 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)				

	4 hz				
— at 230 V rated value	1 hp				
for 3-phase AC motor	0 hr				
— 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 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	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				
type of connectable conductor cross-sections					
for main contacts					
— solid	2x (0.5 4 mm²)				
— 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 mm²				
stranded	0.5 4 mm ²				
 finely stranded with core end processing 	0.5 2.5 mm ²				
 finely stranded with one end processing 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 mm²				
 finely stranded with core end processing 	0.5 2.5 mm ²				
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²				
type of connectable conductor cross-sections	0.0 2.0 mm				
for auxiliary contacts					
-	$2x(0.5 - 4 \text{ mm}^2)$				
— solid or stranded	2x (0,5 4 mm²)				

- finely stranded with core end proces	•	2x (0.5 2.5)					
— finely stranded without core end pro	cessing		.5 2.5 mm²)				
for AWG cables for auxiliary contacts AWG number as coded connectable conduct section	tor cross	2x (20 12)					
 for main contacts 		20 12					
for auxiliary contacts		20 12					
Safety related data							
product function							
mirror contact according to IEC 60947-4-	1	Yes; with 3RH	29				
positively driven operation according to IE			20				
suitable for safety function	0 00047-0-1	Yes	No				
suitability for use safety-related switching OFF		Yes					
service life maximum		20 a					
test wear-related service life necessary		Yes					
proportion of dangerous failures		165					
	020	40.9/					
with low demand rate according to SN 31		40 %					
with high demand rate according to SN 3		73 %					
B10 value with high demand rate according t		1 000 000					
failure rate [FIT] with low demand rate accore 31920	ding to SN	100 FIT					
ISO 13849							
device type according to ISO 13849-1		3					
overdimensioning according to ISO 13849-2	necessary	Yes					
IEC 61508							
safety device type according to IEC 61508-2 Electrical Safety		Туре А	Туре А				
protection class IP on the front according to	IEC 60529	IP20					
touch protection on the front according to IE	C 60529	finger-safe, for	r vertical contact	from the front			
Approvals Certificates							
General Product Approval							
Confirmation UK			CE EG-Konf.	(b)	KC		
General Product Ap- proval EMV	Functional Saf	tey Test C	Certificates		Marine / Shipping		
	<u>Type Examinatio</u> <u>tificate</u>		Test Certific- /Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping					other		
	PRS		RINA	RMRS	<u>Miscellaneous</u>		
other	Railway	Enviro	onment				
Confirmation Confirmation	<u>Special Test Ce</u> <u>ate</u>	ertific-	EPD	Environmental Con- firmations			

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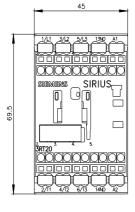
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AF01&lang=en

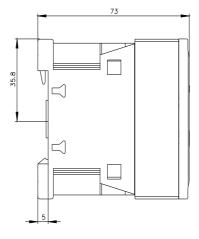
Characteristic: Tripping characteristics, I2t, Let-through current

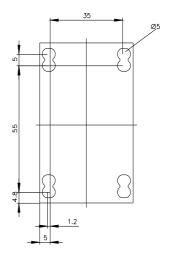
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AF01/char

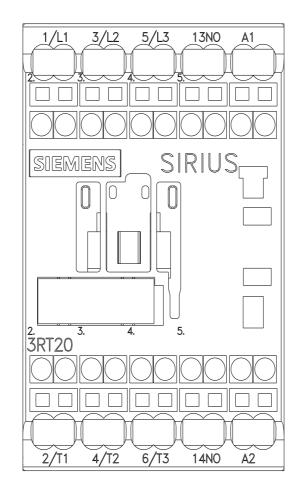
Further characteristics (e.g. electrical endurance, switching frequency)

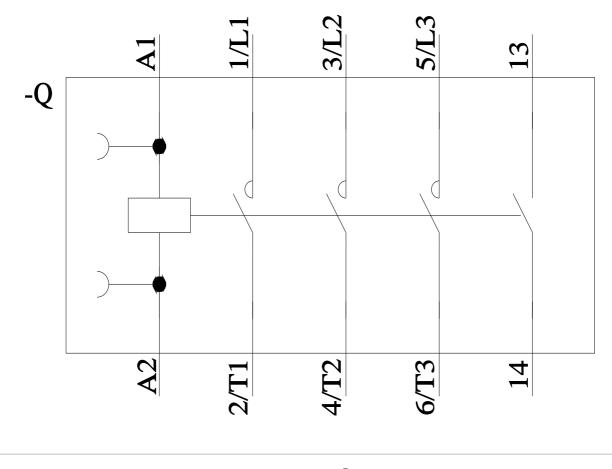
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AF01&objecttype=14&gridview=view1











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