## SIEMENS

## Data sheet

## 3RT2017-2FW42



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 48 V DC, with integrated diode, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00  $\,$ 

120C (120C (120C)	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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 DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.292 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %

maximum	
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	153 kg
global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during operation	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	22 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 0
• 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
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	9.9 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	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	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	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 <sup>2</sup>
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 60 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	1.6 A
— at 440 V rated value	0.8 A

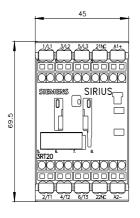
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— 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-2 at 400 V rated value	5.5 kW
• at AC-3	0.1347
- at 230 V rated value	3 kW 5.5 kW
- at 400 V rated value	
- at 500 V rated value	5.5 kW
<ul> <li>— at 690 V rated value</li> <li>at AC-3e</li> </ul>	5.5 kW
• at AC-se — at 230 V rated value	2 1/1/1
	3 kW
— at 400 V rated value — at 500 V rated value	5.5 kW 5.5 kW
— at 600 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	5.5 KW
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	4.9 KVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	6.2 kVA
• up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.9 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	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	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 1 s switching at zero current maximum     Imited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 0 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h

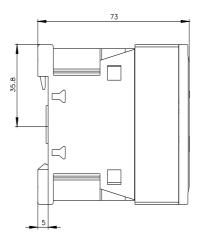
● at AC-3 maximum	750 1/h
	750 1/h
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>	
Control circuit/ Control	250 1/h
	DC
type of voltage of the control supply voltage	48 V
control supply voltage at DC rated value	48 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
design of the surge suppressor	diode
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	38 65 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 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	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	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value design of the miniature circuit breaker for short-circuit protection	0.1 A C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
<ul> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> </ul>	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- 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

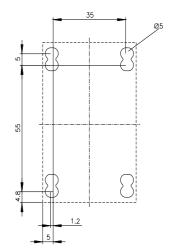
Short-circuit protection				
design of the fuse link				
for short-circuit protection of the main circuit				
- with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)			
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 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			
<ul> <li>for live parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections				
type of connectable conductor cross-sections <ul> <li>for main contacts</li> </ul>				
• for main contacts — solid	2x (0.5 4 mm²)			
<ul> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> </ul>	2x (0,5 4 mm <sup>2</sup> )			
<ul> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )			
<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> </li> </ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )			
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<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> </li> </ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 12) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>			
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<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>molid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0,5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 12) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0,5 4 mm <sup>2</sup> ) 2x (0,5 4 mm <sup>2</sup> ) 2x (0,5 4 mm <sup>2</sup> )			
<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> </ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 12) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0,5 4 mm <sup>2</sup> ) 2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )			
<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li></ul></ul>	2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 12) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0,5 4 mm <sup>2</sup> ) 2x (0,5 4 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )			

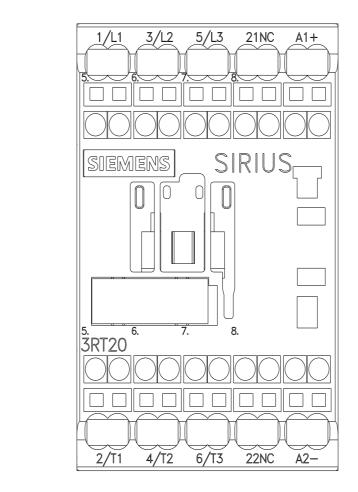
<ul> <li>for auxiliary con</li> </ul>	tacts		20 12			
afety related data						
oduct function		Voc				
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>		Yes No				
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul>		5 00947-5-1	Yes			
	-					
	y-related switching OFF		Yes			
			20 a Yes			
est wear-related service life necessary proportion of dangerous failures		Tes				
	d rate according to SN 319	20	40 %			
	•					
5		73 %				
			1 000 000 100 FIT			
1920	iow demand rate accord		100111			
SO 13849						
evice type accordin	g to ISO 13849-1		3			
verdimensioning ac	cording to ISO 13849-2 n	ecessary	Yes			
EC 61508						
afety device type ac	cording to IEC 61508-2		Туре А			
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rotection class IP or	n the front according to I	EC 60529	IP20			
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	Lloyds Kegister uis	PRS	RINA	RMRS	<u>Miscellaneous</u>	
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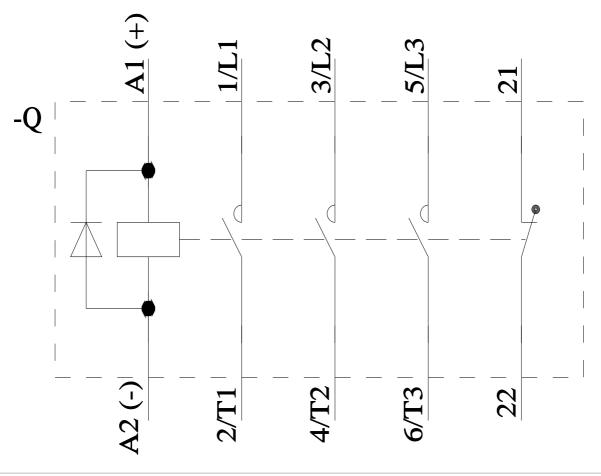
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