## SIEMENS

## Data sheet

## 3RT2017-2FF42



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NC, 110 V DC, with diode integrated, 3-pole Size S00, Spring-type terminal

product brand name	SIRIUS			
product designation	Power contactor			
product designation	3RT2			
General technical data				
size of contactor	S00			
product extension	300			
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			
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> </ul>	0.5 W			
without load current share typical	4 W			
insulation voltage	- W			
of main circuit with degree of pollution 3 rated value	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated</li> </ul>	690 V			
value				
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 safe isolation 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 (switching 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			
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	
<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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	22 A
• at AC-1	
— 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
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul>	4.8 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.8 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	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 operational current for approx. 200000 operating	4 mm <sup>2</sup>
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 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
- at 24 V rated value	20 A
— at 110 V rated value	12 A
	1.6 A
— at 220 V rated value	
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	

	20.4
— at 24 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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	
- 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
	5.5 KW
• at AC-3e	2 144
— 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	
<ul> <li>at 400 V rated value</li> </ul>	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
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	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
-	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>	
<ul> <li>limited to 10 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
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	10.000.1/b
• at DC	10 000 1/h
operating frequency	4.000.4/h
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	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	DC

control cumply voltage at DC	-			
control supply voltage at DC	440.1/			
rated value	110 V			
operating range factor control supply voltage rated value of magnet coil at DC				
• initial value	0.8			
• full-scale value	0.8			
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				
	1			
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			
<ul> <li>at 690 V rated value</li> </ul>	1 A			
operational current at DC-12				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	6 A			
<ul> <li>at 60 V rated value</li> </ul>	6 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
<ul> <li>at 125 V rated value</li> </ul>	2 A			
<ul> <li>at 220 V rated value</li> </ul>	1 A			
<ul> <li>at 600 V rated value</li> </ul>	0.15 A			
operational current at DC-13				
• at 24 V rated value	10 A			
<ul> <li>at 48 V rated value</li> </ul>	2 A			
• at 60 V rated value	2 A			
<ul> <li>at 110 V rated value</li> </ul>	1 A			
<ul> <li>at 125 V rated value</li> </ul>	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				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	11 A			
• at 600 V rated value	11 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	0.5 hp			
— at 230 V rated value	2 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	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         +/180° rotation possible on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface           • side-by-side mounting         -           • side-by-side mounting         Yes           • side-by-side mounting         Yes           • side-by-side mounting         -           - required spacing         Yes           • with side-by-side mounting         -           dowards         10 mm	required			
Invarial and backward by +-7.22.5° on vertical mounting surface           side-by-side mounting         Forward and backward by +-7.22.5° on vertical mounting rail according to DIN EN 60715           height         70 mm           width         45 mm           depth         73 mm           required spacing         73 mm           - upwards         10 mm           - dowards         10 mm           - upwards         10 mm           - dowards         10 mm	Installation/ mounting/ dimensions			
• side-by-side mounting         Yes           height         70 mm           width         45 mm           dopth         73 mm           required spacing         73 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm	mounting position			
height     70 mm       width     45 mm       depth     73 mm       required spacing     • with side bey-side mounting       - forwards     10 mm       - downwards     10 mm       - downwards     10 mm       - at the side     0 mm       - forwards     10 mm       - at the side     0 mm       - of wards     10 mm       - at the side     6 mm       - ownwards     10 mm       - at the side     6 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - solid control circuit     spring-loaded terminals       is to rauxiliary contacts     spring-loaded terminals       - for wain contacts     spring-loaded terminals <t< td=""><td>fastening method</td><td colspan="3">screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715</td></t<>	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
widh         46 mm           depth         73 mm           ewith side-by-side mounting         -           - forwards         10 mm           - upwards         10 mm           - upwards         10 mm           - dorwards         50 mm           connectable         6 mm           connectable         6 mm           connectable         6 mm           connectable         50 mig-loaded terminals           of rawillay and control croat         spring-loaded terminals           of rawi	<ul> <li>side-by-side mounting</li> </ul>	Yes		
depth         73 mm           required spacing         *           • with side-by-side mounting         10 mm           - upwards         10 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm<	height	70 mm		
evuited spacing         • with side-by-side mounting         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       0 mm         - at the side       0 mm         - for younds       10 mm         - at the side       0 mm         - at the side       6 mm         - downwards       10 mm         - for iwe parts       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       6 mm         Sonnetclice conductor       spring-loaded terminals	width	_		
• with side-by-side mounting         0 mm           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         0 mm           - at the side         0 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - at the side         6 mm           - downwards         10 mm           - downwards <t< td=""><td>depth</td><td>73 mm</td></t<>	depth	73 mm		
- forwards0 mm- downwards00 mm- at the side0 mm- at the side0 mm- onvards10 mm- forwards10 mm- upwards0 mm- downwards0 mm- downwards10 mm- downwards5 mm- for nain current circuitspring-loaded terminals- downwards5 mm- downwards5 pring-loaded terminals- downwards5 pring-loaded terminals- downwards2x (0.5 4 mm <sup>2</sup> )- downwards2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 25 mm <sup>2</sup> )- solid0.5 4 mm <sup>2</sup> - solid or stranded0.5 4 mm <sup>2</sup> - solid or stranded0.5 4 mm <sup>2</sup> - solid or stranded0.5 4 mm <sup>2</sup> - finely stranded with core end processing0.5 4 mm <sup>2</sup> - solid or stranded0.5 4 mm <sup>2</sup> - finely stranded with core end processing0.5 25 mm <sup>2</sup> - solid or stranded0.5 25 mm <sup>2</sup> - solid or stranded0.5 25 mm <sup>2</sup> - finely	required spacing			
	<ul> <li>with side-by-side mounting</li> </ul>			
- downwards10 mm- at the side0 mm- at the side0 mm- forwards10 mm- upwards6 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- forvards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards0 mm- downwards10 mm- downwards5 mm- downwards2 (0.5 4 mm*)- solid or stranded2 (0.5 4 mm*)- finely stranded with core end processing2 (0.5 2 mm*)- solid or stranded0.5 4 mm*- solid or stranded0.5 4 mm*- solid or stranded0.5 2 mm*- solid or stranded0.5 4 mm*- finely stranded with core end processing0.5 2 mm*- solid or stranded0.5 4 mm*- finely stranded with core end processing0.5 2 mm*- solid or stranded0.5 4 mm*- finely stranded with core end processing0.5 2 mm* <tr< td=""><td>— forwards</td><td>10 mm</td></tr<>	— forwards	10 mm		
at the side0 mm• for grounded parts10 mm upwards10 mm upwards10 mm at the side6 mm at the side0 mm at the side0 mm at the side10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards6 mm downwards5 mm downwards2 x (0.5 4 mm <sup>2</sup> ) ondid2 x (0.5 2 mm <sup>2</sup> ) solid or standed2 x (0.5 2 mm <sup>2</sup> ) solid or standed0 for 12 mely stranded without core end processing5 4 mm <sup>2</sup> solid or stranded0 for 2 mm <sup>2</sup> solid or stranded0 for 2 mm <sup>2</sup> solid or stranded0 for 2 mm <sup>2</sup> solid or stranded with core end processing5 2 mm <sup>2</sup> solid or stranded with core end processing5 2 mm <sup>2</sup> solid or stranded0 for 2 mm <sup>2</sup> solid or stranded0 for 2 mm <sup>2</sup> solid or stranded0 f	— upwards	10 mm		
	— downwards	10 mm		
- forwards10 mm- upwards00 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- downwards0 mm- downwardsspring-loaded terminals- for ain current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main currents2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG cables for main contacts2x (20 12)• contacts2x (20 12)• contactstranded• finely stranded with core end processing0.5 2.5 mm²•	— at the side	0 mm		
- forwards10 mm- upwards00 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- downwards0 mm- downwardsspring-loaded terminals- for ain current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main currents2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG cables for main contacts2x (20 12)• contacts2x (20 12)• contactstranded• finely stranded with core end processing0.5 2.5 mm²•	<ul> <li>for grounded parts</li> </ul>			
- at the side6 mm- downwards10 mm• for live parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- at the side6 mm <b>Connections/ Terminals</b> 5 mm <b>Connection</b> <		10 mm		
- at the side6 mm- downwards0 mm• for lve parts10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- at the side6 mm <b>connections/ Terminals</b> spring-loaded terminals <b>connections/ Terminals</b> spring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitSpring-lype terminals• for main current dicuitSpring-lype terminals• for main contactsSpring-lype terminals• for main contactsSpring-lype terminals• for main contactsSpring-lype terminals• for main contactsSpring-lype terminals• for main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 25 mm²)• at AWG cables for main contacts2x (20 12)• contactable conductor cross-section for main contacts0.5 4 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing </td <td>— upwards</td> <td>10 mm</td>	— upwards	10 mm		
downwards10 mm• for live parts forwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards6 mm domneutors/ Forminals5 mmconnections/ Forminalsspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-type terminals• for main current circuitspring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 25 mm²)• at AWG cables for main contacts2x (0.5 25 mm²)• solid0.5 4 mm²• solid or stranded0.5 4 mm²• solid or stranded with core end processing0.5 25 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 25 mm²• solid or stranded0.5 25 mm²• finely stranded with core end processing0.5 25 mm²• finely stranded with core end processing0.5 25 mm²• finely stranded with core end processing0.	•	6 mm		
• for live partsID mm- forwards10 mm- upwards10 mm- downwards10 mm- at the side6 mm• connections/ Terminals• for main current circuit• for main current circuitspring-loaded terminals• for main contactsSpring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- fiely stranded with core end processing2x (0.5 2.5 mm²)• for main contacts2x (0.5 4 mm²)• for disconder cross-section for main contacts2x (0.5 4 mm²• solid0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing2.5 2.5 mm²• solid0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• f				
- forwards10 mm- upwards10 mm- downwards0 mm- downwards0 mm- at the side6 mmconnections/ Terminalsspring-loaded terminalsspring-loaded terminalsof or and no current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main contactsSpring-type terminals• of magnet coliSpring-type terminals• for main contactsSpring-type terminals• for auxiliary contactsSpring-type terminals• for wain contactsSpring-type terminals• for wain contactsString-type terminals• forely stranded with core end processingString-type terminals• at AVG cables for main contactsString-type terminals• solid0.5 4 mm²• forely stranded with core end processing0.5 2.5 mm²• forely stranded with core end processing0.5 4 mm²• forely stranded with core end processing0.5 2.5 mm²• forely stranded with core end processing				
upwards10 mm downwards10 mm at the side6 mmconnection/ • for main current circuit• for axiliary and control circuitspring-loaded terminals• for axiliary contactsSpring-loaded terminals• for axiliary contactsSpring-lype terminals• of magnet coliSpring-lype terminals• of magnet coliSpring-lype terminals• for main contactsSpring-lype terminals• for main contactsSpring-lype terminals• for main contactsString-lype terminals• for divel stranded with core end processingString-log• for linely stranded with core end processingString-log• forly stranded with core end processingO.5 4 mm²• solidO.5 4 mm²• solidO.5 4 mm²• solid or strandedO.5 4 mm²• forly stranded with core end processingO.5 2.5 mm²• forly stranded with core end processingO.5 2.5 mm²• forly stranded with core end processingO.5 2.5 mm²• solid or strandedO.5 4 mm²• forly stranded with core end processingO.5 2.5 mm²• forly stranded with core end processingO.5 2.5 mm²• forly stranded with core end processingO.5 2.5 mm²• forly stranded with core end processing	•	10 mm		
- downwards     10 mm       - at the side     6 mm       Connections/ Tominals     5 mm       type of electrical connection     spring-loaded terminals       • for auxiliary and control circuit     spring-loaded terminals       • for auxiliary and control circuit     spring-loaded terminals       • of magnet coil     Spring-type terminals       • for main contacts     Spring-type terminals       • of magnet coil     2x (0.5 4 mm²)       solid     2x (0.5 4 mm²)       solid or stranded     2x (0.5 4 mm²)       finely stranded with core end processing     2x (0.5 4 mm²)       - solid     0.5 4 mm²       - solid     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • solid or stranded     0.5 25 mm²       • solid or stranded     0.5 4 mm²       • finely stranded with core end processing     0.5 25 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • finely stranded with core end processing     0.5 2.5 mm² <td></td> <td colspan="3"></td>				
at the side6 mmconnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary contactsSpring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet collSpring-type terminals• for main contactsSpring-type terminals• of main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG cables for main contacts2x (2.0 12)• solid0.5 4 mm²• solid0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing2x (2.0 12)• solid0.5 4 mm²• solid0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing	•			
Somections/ Terminals           type of electrical connection           • for main current circuit           • for auxiliary and control circuit           • at contactor for auxiliary contacts           • of magnet coil           type of connectable conductor cross-sections           • for main contacts           - solid           - solid or stranded           - solid or stranded with core end processing           - finely stranded with core end processing           • at AWG cables for main contacts           • solid           • stranded           • finely stranded with core end processing           • stranded           • finely stranded with core end processing           • finely stranded with cor				
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AWG number as coded connectable conductor cross section				
	AWG number as coded connectable conductor cross			
		20 12		

<ul> <li>for auxiliary con</li> </ul>	ntacts		20 12			
Safety related data						
product function						
<ul> <li>mirror contact a</li> </ul>	according to IEC 60947-	-4-1	Yes			
B10 value with high demand rate according to SN 31920		1 000 000				
proportion of dangerous failures						
	d rate according to SN	31920	40 %			
	nd rate according to SN		73 %			
-	failure rate [FIT] with low demand rate according to SN		100 FIT			
T1 value for proof test IEC 61508	t interval or service life	according to	20 y			
protection class IP c 60529	on the front according	to IEC	IP20			
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical of	contact from the front		
suitability for use						
<ul> <li>safety-related s</li> </ul>	witching OFF		Yes			
Certificates/ approval	-					
General Product Ap	provai					
SP En	<u>Confirmation</u>			<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	of Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	
Marine / Shipping	other		Dangerous Goo	od		
RMRS RMRS	Confirmation		<u>Transport Inform</u> tion	<u>a-</u>		
https://www.siemens.o Industry Mall (Online	e ordering system)	_	) ?mlfb=3RT2017-2FF42			

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2FF42

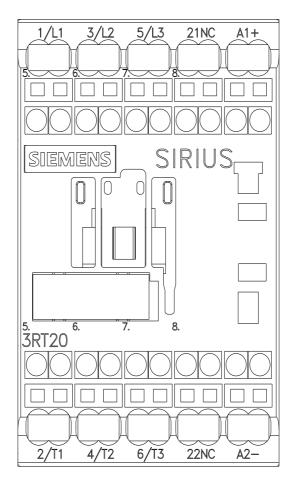
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FF42

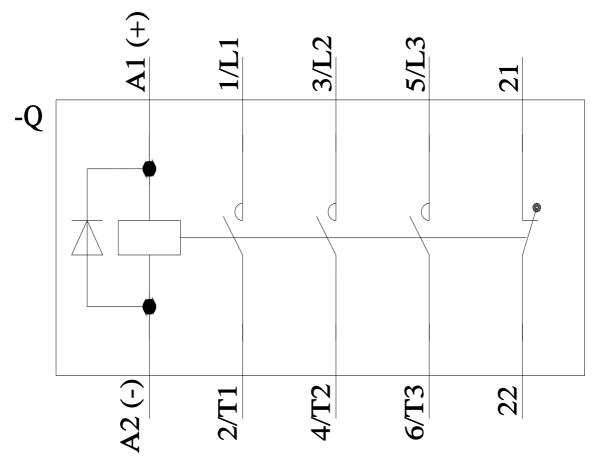
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2FF42&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

## https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FF42/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2FF42&objecttype=14&gridview=view1





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