SIEMENS

Data sheet

3RT2015-2AK61



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 110 V AC, 50 Hz 120 V, 60 Hz, 3-pole, Size S00, Spring-type terminal

ingen 6		
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	1.2 W	
per pole	0.4 W	
power loss [W] for rated value of the current without load current share typical	4.4 W	
surge voltage resistance		
 of main circuit rated value 	6 kV	
 of auxiliary circuit rated value 	6 kV	
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.10.2009 00:00:00	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
 ambient temperature during operation 	-25 +60 °C	
ambient temperature during storage	-55 +80 °C	
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	

operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	18 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 $^\circ \mathrm{C}$ rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
 at AC-4 at 400 V rated value 	6.5 A
 at AC-5a up to 690 V rated value 	15.8 A
 at AC-5b up to 400 V rated value at AC-6a 	5.8 A
 up to 230 V for current peak value n=20 rated value 	4 A
 up to 400 V for current peak value n=20 rated value 	4 A
 — up to 500 V for current peak value n=20 rated value 	3.8 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	3.6 A
— up to 230 V for current peak value n=30 rated value	2.7 A
 up to 400 V for current peak value n=30 rated value 	2.7 A
 — up to 500 V for current peak value n=30 rated value 	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
— at 600 V rated value operational current	0.7 A
	0.7 A

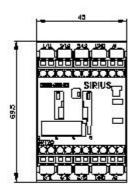
— at 110 V rated value	0.1 A			
 with 2 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	15 A			
— at 110 V rated value	0.25 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	15 A			
— at 110 V rated value	15 A			
— at 220 V rated value	1.2 A			
— at 440 V rated value	0.14 A			
— at 600 V rated value	0.14 A			
operating power				
• at AC-3				
— at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	3 kW			
— at 690 V rated value	4 kW			
operating power for approx. 200000 operating cycles				
at AC-4				
 at 400 V rated value 	1.15 kW			
• at 690 V rated value	1.15 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	1.5 kV·A			
 up to 400 V for current peak value n=20 rated value 	2.7 kV·A			
 up to 500 V for current peak value n=20 rated value 	3.3 kV·A			
 up to 690 V for current peak value n=20 rated value 	4.3 kV·A			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=30 rated value	1 kV·A			
• up to 400 V for current peak value n=30 rated value	1.8 kV·A			
• up to 500 V for current peak value n=30 rated value	2.2 kV·A			
• up to 690 V for current peak value n=30 rated value	2.9 kV·A			
short-time withstand current in cold operating state up to 40 °C				
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	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			
• 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	110 V			
• at 60 Hz rated value	120 V			
operating range factor control supply voltage rated value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	26.4 V·A			
• at 60 Hz	26.4 V·A			
inductive power factor with closing power of the coil				
• at 50 Hz	0.81			
• at 60 Hz	0.81			

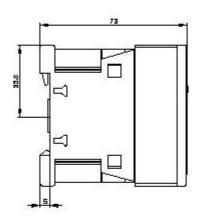
apparent holding power of magnet coil at AC			
• at 50 Hz	4.4 V·A		
• at 60 Hz	4.4 V·A		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.24		
• at 60 Hz	0.24		
closing delay			
• at AC	9 35 ms		
opening delay			
• at AC	3.5 14 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NO contacts for auxiliary contacts instantaneous 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			
 at 24 V rated value 	10 A		
 at 48 V rated value 	6 A		
 at 60 V rated value 	6 A		
 at 110 V rated value 	3 A		
 at 125 V rated value 	2 A		
 at 220 V rated value 	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 	1 A		
 at 125 V rated value 	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	4.8 A		
• at 600 V rated value	6.1 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	0.25 hp		
— at 230 V rated value	0.75 hp		
 for 3-phase AC motor 			
— at 200/208 V rated value	1.5 hp		
— at 220/230 V rated value	2 hp		
— at 460/480 V rated value	3 hp		
— at 575/600 V rated value	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)		

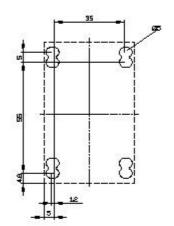
• for short-circuit protection of the auxiliary switch required

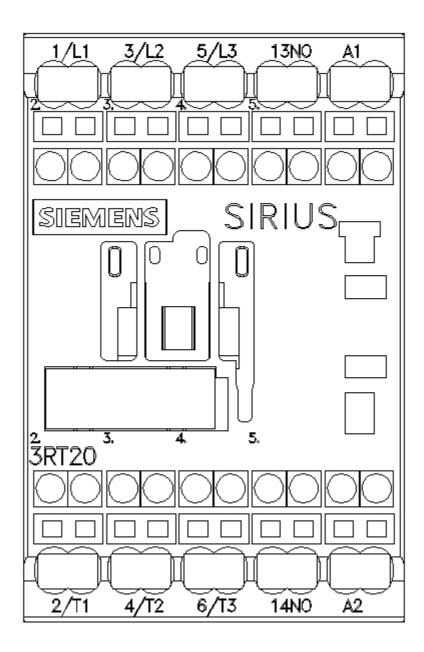
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 70 mm width 45 mm depth 73 mm required spacing In mm • with side-by-side mounting 0 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards <th1< th=""><th>Installation/ mounting/ dimensions</th><th></th></th1<>	Installation/ mounting/ dimensions				
Invariant and backward by 4-22.5° on vertical mounting surface sected and snape on mounting onto 35 mm standard mounting rail according to INL EN 80715 height 70 mm height 70 mm depth 70 mm depth <th70 mm<="" th=""></th70>		+/-180° rotation possible on vertical mounting surface; can be tilted			
• side byside mounting Yes height 70 mm width 45 mm deptn 73 mm required spacing 73 mm • with side-byside mounting - - forwards 10 mm - upwards 10 mm - downwards 10 mm - at he side <td< td=""><td></td><td>forward and backward by +/- 22.5° on vertical mounting surface</td></td<>		forward and backward by +/- 22.5° on vertical mounting surface			
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depth 73 mm required spacing * • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Spring-loaded terminals spring-loaded terminals of maperetoil Spring-loaded terminals	height	70 mm			
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	 with side-by-side mounting 				
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• for grounded partsImage: constraint of the state of the	— downwards	10 mm			
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	 for grounded parts 				
- a the side6 mm- downwards10 mm• for live parts10 mm- upwards10 mm- upwards10 mm- downwards0 mm- a the side6 mmConnections/ Terminals6 mmConnections/ Terminalsspring-loaded terminalsof or and no current circuitspring-loaded terminalsof or adin contactsSpring-type terminalsof main contactsSpring-type terminalsof main contactsSpring-type terminals- solid2x (0 5 4 mm²)- solid or stranded2x (0 5 4 mm²)- solid or stranded with core end processing2x (0 5 2 5 mm²)- finely stranded with core end processing0 5 2 5 mm²)• solid0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2 5 mm²• solid or stranded0.5 4 mm²• solid or stranded0.5 2 mm²• solid or stranded0.5 2 mm²• solid or stranded0.5 2 mm²• finely stranded with core end processing0.5	— forwards	10 mm			
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 for live parts forwards forwards domm upwards domm upwards domm downwards domm downwards domm downwards domm downwards for any the side Spring-loaded terminals spring-loaded terminals	— at the side	6 mm			
forwards10 mm upwards10 mm downwards00 mm downwards0 mm downwards6 mmConnections/ Terminalsspring-loaded terminals• for nain current circuitspring-loaded terminals• for nain current circuitspring-loaded terminals• for nain current circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of mane contactsSpring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0,5 4 mm²)- solid2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 2,5 mm²)• at AWG cables for main contacts2x (0,5 2,5 mm²)• solid0.5 4 mm²• finely stranded with core end processing0.5 2,5 mm²• solid0.5 4 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• finely stranded with core end processing0.5 2,5 mm²• for auxiliary contacts2 2,5 mm²• finely stranded with core end processing0.5 2,5 mm²• for auxiliary contacts2 2,5 mm²• finely stranded with core end p		10 mm			
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- downwards10 mm- a the side6 mmconnections/ terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• of magnet coilSpring-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 2.5 mm²)• a KUG cables for main contacts2x (20 12)connectable conductor cross-section for main contacts• stranded0.5 4 mm²• stranded0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• stranded0.5 4 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• for auxiliary contacts 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing 2.5 mm²• for auxiliary contacts 2.5 mm²• a	— forwards	10 mm			
at the side 6 mm connections/ Terminals • for main current circuit spring-loaded terminals • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • for main contacts - solid - solid or stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) • at AWG cables for main contacts 2x (20 12) connectable conductor cross-section for main contacts • solid 0.5 4 mm²) • at AWG cables for main contacts 2x (20 12) connectable conductor cross-section for main contacts • solid 0.5 4 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 • finely stranded with core end processing 0.5 2.5 mm² • finely stranded	— upwards	10 mm			
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • of magnet coil • of stranded - solid - solid or stranded - minely stranded without core end processing - finely stranded without core end processing • at AWG cables for main contacts • solid • solid • stranded • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing	— downwards	10 mm			
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 coll Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (0.5 4 mm²) - solid or stranded 2x (0.5 2.5 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - tatAWG cables for main contacts 2x (20 12) connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 2.5 mm² • solid 0.5 4 mm² • solid 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm²) • for auxiliary contacts </td <td>— at the side</td> <td>6 mm</td>	— at the side	6 mm			
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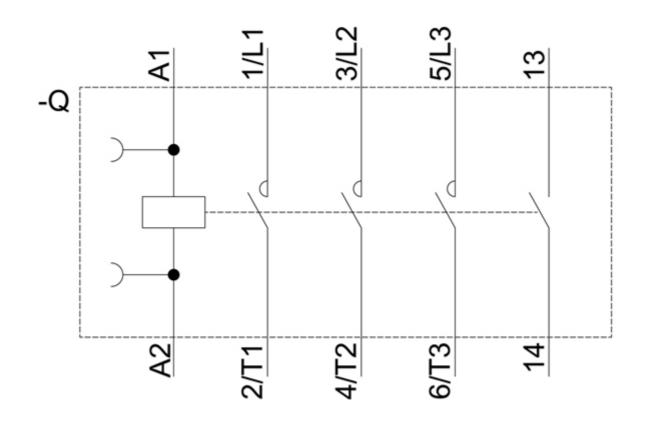
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