SIEMENS

Data sheet

3RT2015-1AP01



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal

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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4.2 W
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 safe isolation 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
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	
 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 	18 A
• at AC-1	
	18 A
— up to 690 V at ambient temperature 40 °C rated value	IOA
— up to 690 V at ambient temperature 60 °C	16 A
rated value	
• 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-3e	
— 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 	5.8 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	4 A
	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	3.8 A
value	
— up to 690 V for current peak value n=20 rated	3.6 A
value	
● at AC-6a	
 — 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	2.7 A
value	2.1 A
— up to 500 V for current peak value n=30 rated	2.5 A
value	
 up to 690 V for current peak value n=30 rated 	2.4 A
value	
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 60 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 60 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	45.4
— at 24 V rated value	15 A
— at 60 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 1 current path at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 60 V rated value	0.35 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 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
• with 3 current paths in series at DC-3 at DC-5	45 4
— at 24 V rated value	15 A
— at 60 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 230 V rated value — at 400 V rated value	1.5 KW 3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	+ KVV
— 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 kVA
 up to 400 V for current peak value n=20 rated value 	2.7 kVA
 up to 500 V for current peak value n=20 rated value 	3.3 kVA
 up to 690 V for current peak value n=20 rated value 	4.3 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1 kVA
 up to 400 V for current peak value n=30 rated value 	1.8 kVA
• up to 500 V for current peak value n=30 rated value	2.2 kVA
 up to 690 V for current peak value n=30 rated value 	2.9 kVA
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
 Initial to 1's switching at zero current maximum limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10's switching at zero current maximum limited to 30's switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 Imited to 50's switching at zero current maximum Imited 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-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	230 V
at 60 Hz rated value	230 V

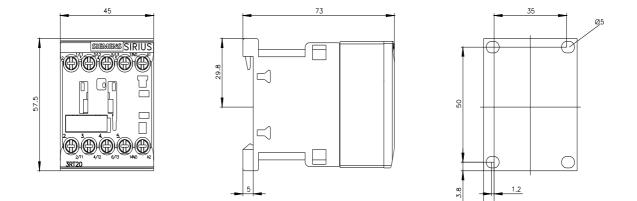
operating range factor control cumply voltage rated	
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the	
coil	
• 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	1
instantaneous contact	40.4
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
at 230 V rated value	10 A 3 A
 at 400 V rated value at 500 V rated value 	2 A
at 690 V rated value	1A
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	

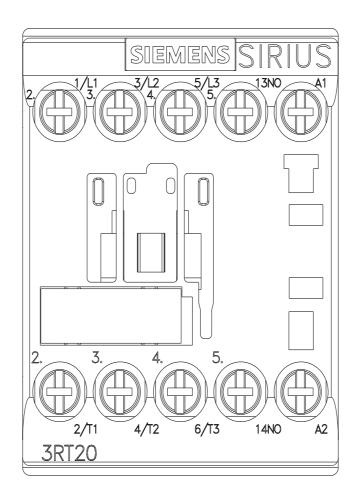
	 design of the fuse link for short-circuit protection of the main circuit 	
- with type of assignment 2 required gG: 20A (600V, 100kA), abl: 16A (600V, 100kA), BS88: 20A (415V, gG: 10 A (500 V, 10kA) for short-circuit protection of the auxiliary switch required and backward by 4-2 25' on vertical mounting surface; can be tilted forward and backward by 4-2 25' on vertical mounting surface; and a backward by 4-2 25' on vertical mounting surface; fasterning method solve by side mounting vertical mounting on 0.35 mm DIN rail according to DIN EN 60715 • side by side mounting • with side-by side mounting • upwards • upwards • upwards • for yourds • for yourds		gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
• for short-circuit protection of the auxiliary switch required gG: 10.4 (S00 V, 1 kA) Instanting position +-100° indiation possible on vertical mounting surface: can be illust forward and backward by +/- 22.5° on vertical mounting surface: screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 00715 • safe by-side mounting Yes • side by-side mounting Yes • side by-side mounting Yes • with side by-side mounting Yes • or ground de parts Yes • for ground de parts Yes • for wards 10 mm • for live parts Yes • for wards 10 mm • for wards 10 mm • for live parts 10 mm • for wards 10 mm • for wards in orinsit screw-type terminals <		gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
meunting position +160° rotation possible on vortical mounting surface; can be liked forward and backward by X-22 so new form innounting surface; solide-by-side mounting fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 807/15 • solid-by-side mounting Yes height 78 mm required spacing Yes • with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - dorwards 10 mm		,
meunting position +160° rotation possible on vortical mounting surface; can be liked forward and backward by X-22 so new form innounting surface; solide-by-side mounting fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 807/15 • solid-by-side mounting Yes height 78 mm required spacing Yes • with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - dorwards 10 mm	· · ·	
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height width 50 mm width 45 mm depth 73 nm required spacing 73 nm - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxillary contacts screw-type terminals of magnet coll screw-type terminals - of downwards screw-type terminals - of downet collactor for auxillary contacts screw-type terminals - of downet collactor for auxillary contacts	fastening method	
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required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 0 mm - at the side 0 mm - upwards 10 mm - downwards 10 mm - downward		
• with side-by-side mounting - forwards 10 mm - ownwards 10 mm - downwards 10 mm - downwards 0 mm - for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 20 mm Connectable conductor cross-sections for mains cortacts Screw-type terminals <td>•</td> <td>73 mm</td>	•	73 mm
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 for live parts Towards U mm <liu li="" mm<=""> U mm</liu>		
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Connections/ Terminals type of electrical connection • for main current 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 Screw-type terminals • 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) connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • of auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts <td></td> <td></td>		
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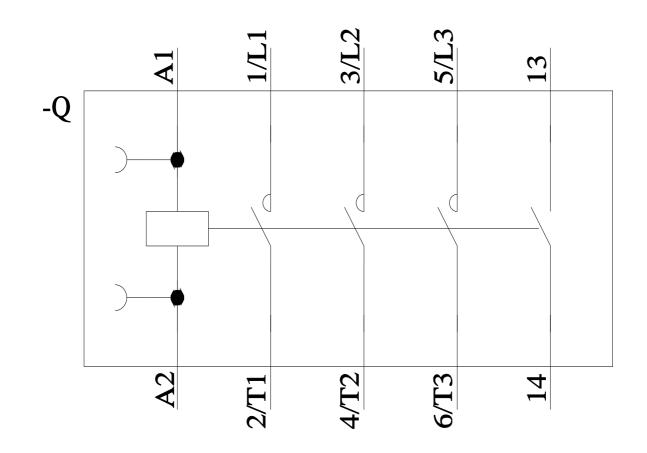
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EMC	Functional Safety/Safety of Machinery	Declaration o	of Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
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https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AP01/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AP01&objecttype=14&gridview=view1







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