SIEMENS

Data sheet

3RT2015-2AP02-1AA0

Power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 220 V AC, 50 / 60 Hz 3-pole, Size S00 Spring-type terminal upright mounting position



Figure similar

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
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 	400 V
60947-1	
Protection class IP	
• on the front	IP20
 of the terminal 	IP20

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 electronics- compatible auxiliary switch block typical 	5 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	ĸ		
Reference code acc. to DIN EN 81346-2	Q		
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		
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		
Operating current			
• at AC-1 at 400 V			
— at ambient temperature 40 °C rated value	18 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated value	18 A		
— up to 690 V at ambient temperature 60 °C rated value	16 A		
• at AC-2 at 400 V rated value	7 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		
Connectable conductor cross-section in main circuit at AC-1			
• at 60 °C minimum permissible	2.5 mm ²		
• at 40 °C minimum permissible	2.5 mm²		

Operating 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
Operating 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
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 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-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V rated value	11 kW

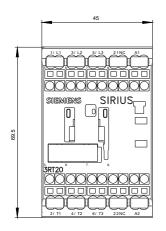
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V rated value	19 kW
— at 690 V at 60 °C rated value	18 kW
• at AC-2 at 400 V rated value	3 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
Thermal short-time current limited to 10 s	56 A
Power loss [W] at AC-3 at 400 V for rated value of	0.4 W
the operating current per conductor	
No-load switching frequency	10 000 1/h
• at AC	
 Operating frequency at AC-1 maximum 	1 000 1/h
	750 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	250 1/h
• at AC-4 maximum	250 1/11
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 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 V·A
● at 60 Hz	24.3 V·A
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 V·A
• at 60 Hz	3.3 V·A
	0.0 4 / 1

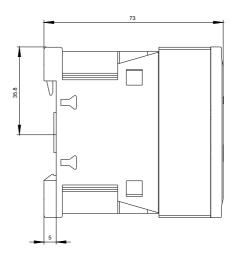
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JL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A	• at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Full-load current (FLA) for three-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A	JL/CSA ratings	
• at 600 V rated value 6.1 A	Full-load current (FLA) for three-phase AC motor	
	• at 480 V rated value	4.8 A
Violded mechanical performance [hp]	• at 600 V rated value	6.1 A
	Yielded mechanical performance [hp]	

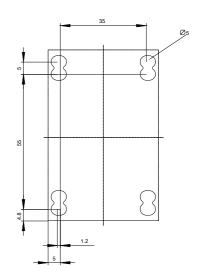
 for single-phase AC motor 				
— at 110/120 V rated value	0.25 hp			
— at 230 V rated value	0.75 hp			
 for three-phase AC motor 				
— at 200/208 V rated value	1.5 hp			
— at 220/230 V rated value	2 hp			
— at 460/480 V rated value	3 hp			
— at 575/600 V rated value	5 hp			
Contact rating of auxiliary 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 	fuse gG: 10 A			
Installation/ mounting/ dimensions				
Mounting position	standing, on horizontal mounting surface			
Mounting type	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				
 with side-by-side mounting 				
 with side-by-side mounting — forwards 	10 mm			
	10 mm 10 mm			
— forwards — upwards — downwards	10 mm 10 mm			
— forwards — upwards	10 mm			
— forwards — upwards — downwards	10 mm 10 mm 0 mm			
— forwards — upwards — downwards — at the side	10 mm 10 mm 0 mm			
 forwards upwards downwards at the side for grounded parts 	10 mm 10 mm 0 mm			
 forwards upwards downwards at the side for grounded parts forwards 	10 mm 10 mm 0 mm			
 forwards upwards downwards at the side for grounded parts forwards upwards 	10 mm 10 mm 0 mm 10 mm 10 mm			
 forwards upwards downwards at the side for grounded parts forwards upwards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm			
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm			
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm			
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for wards 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm			

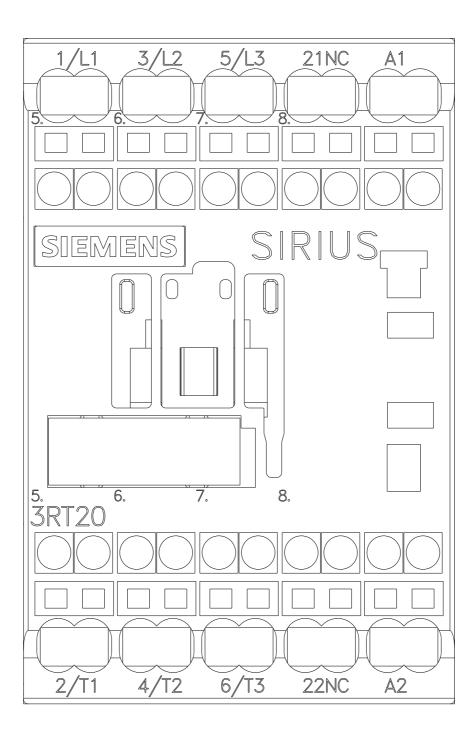
Connections/Terminals	
Type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 at AWG conductors for main contacts 	2x (20 12)
Connectable conductor cross-section for main	
contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
Connectable conductor cross-section for auxiliary contacts	
 single or multi-stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
- finely stranded without core end	2x (0.5 2.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	2x (20 12)
AWG number as coded connectable conductor cross	
 for main contacts 	20 12
 for main contacts for auxiliary contacts 	20 12
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	10.11
with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	73 %
 Failure rate [FIT] with low demand rate acc. to SN 31920 	100 FIT

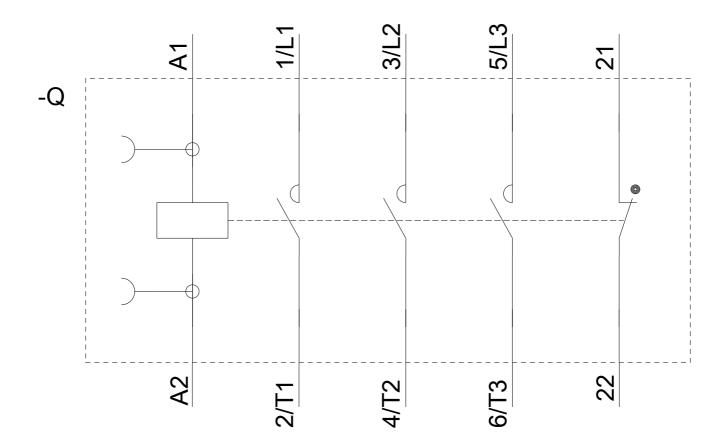
Product function					
	acc. to IEC 60947	-4-1	Yes		
T1 value for proof te	st interval or servi	ce life acc. to	20 у		
Protection against el	Protection against electrical shock finger-safe				
Certificates/approva	als				
General Product					Functional Safety/Safety of Machinery
	CSA	UL	<u>KC</u>	EHC	Type Examination Certificate
Declaration of Conformity	Test Certifica	tes	Marine / Shipp	bing	
EG-Konf.	Type Test Certific ates/Test Repor		rti- ABS	BUREAU VERITAS	Llovd's Register Lrs
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PRS	RINA	RMRS	DNVGLCOM/AF	Confirmation	VDE
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11/05/2018