SIEMENS

Data sheet

3RT2023-1AP00



power contactor, AC-3 9 A, 4 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, Size S0 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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	7.6 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	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 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
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 rated value	40 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
 at AC-4 at 400 V rated value 	8.5 A
 at AC-5a up to 690 V rated value 	35.2 A
 at AC-5b up to 400 V rated value 	7.4 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	11.4 A
 — up to 400 V for current peak value n=20 rated value 	11.4 A
— up to 500 V for current peak value n=20 rated value	9.1 A
 — up to 690 V for current peak value n=20 rated value 	9 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	7.6 A
— up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	6.1 A
 — up to 690 V for current peak value n=30 rated value 	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
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 	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
e at 1 current path at DC-3 at DC-5	
 at 1 current path at DC-3 at DC-5 — at 24 V rated value 	20 A
	20 A
— at 110 V rated value	2.5 A

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— at 220 V rated value	1 A			
— at 440 V rated value	0.09 A			
— at 600 V rated value	0.06 A			
 with 2 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	35 A			
— at 110 V rated value	15 A			
— at 220 V rated value	3 A			
— at 440 V rated value	0.27 A			
— at 600 V rated value	0.16 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	35 A			
— at 110 V rated value	35 A			
— at 220 V rated value	10 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.6 A			
operating power				
• at AC-3				
— at 230 V rated value	2.2 kW			
— at 400 V rated value	4 kW			
— at 500 V rated value	4 kW			
— at 690 V rated value	7.5 kW			
operating power for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	2 kW			
• at 690 V rated value	2.5 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	4.5 kV·A			
 up to 400 V for current peak value n=20 rated value 	7.8 kV·A			
 up to 500 V for current peak value n=20 rated value 	7.8 kV·A			
 up to 690 V for current peak value n=20 rated value 	10.7 kV·A			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=30 rated value 	3 kV·A			
 up to 400 V for current peak value n=30 rated value 	5.2 kV·A			
 up to 500 V for current peak value n=30 rated value 	5.2 kV·A			
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	5.2 kV·A 7.2 kV·A			
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state				
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	7.2 kV·A			
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C e limited to 1 s switching at zero current maximum	7.2 kV·A 170 A; Use minimum cross-section acc. to AC-1 rated value			
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	7.2 kV·A170 A; Use minimum cross-section acc. to AC-1 rated value170 A; Use minimum cross-section acc. to AC-1 rated value			
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 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at 50 Hz rated value operating range factor control supply voltage rated value at 50 Hz 	7.2 kV·A 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 122 A; Use minimum cross-section acc. to AC-1 rated value 78 A; Use minimum cross-section acc. to AC-1 rated value 68 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 1 000 1/h 300 1/h			
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC 	7.2 kV·A 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 122 A; Use minimum cross-section acc. to AC-1 rated value 78 A; Use minimum cross-section acc. to AC-1 rated value 68 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V 0.8 1.1			
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at 50 Hz rated value operating range factor control supply voltage rated value at 50 Hz 	7.2 kV·A 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 122 A; Use minimum cross-section acc. to AC-1 rated value 78 A; Use minimum cross-section acc. to AC-1 rated value 68 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 1 000 1/h 300 1/h			



• at 50 Hz	0.82		
apparent holding power of magnet coil at AC			
• at 50 Hz	7.6 V·A		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.25		
closing delay	_		
• at AC	9 38 ms		
opening delay			
• at AC	4 16 ms		
arcing time	10 10 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous contact	1		
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	7.6 A		
• at 600 V rated value	9 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	1 hp		
— at 230 V rated value	1 hp		
 for 3-phase AC motor 			
— at 200/208 V rated value	2 hp		
— at 220/230 V rated value	3 hp		
— at 460/480 V rated value	5 hp		
— at 575/600 V rated value	7.5 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
• for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)		
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)		



\bullet for short-circuit protection of the auxiliary switch required

required				
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	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	85 mm			
width	45 mm			
depth	97 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			
 for live parts 				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control 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 				
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
— solid or stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)			
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
 at AWG cables for main contacts 	2x (16 12), 2x (14 8)			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
stranded	1 10 mm²			
 finely stranded with core end processing 	1 10 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm ²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
 AWG number as coded connectable conductor cross section for main contacts 	16 8			
 AWG number as coded connectable conductor cross section for auxiliary contacts 	20 14			
Safety related data				
B10 value with high demand rate acc. to SN 31920	1 000 000			

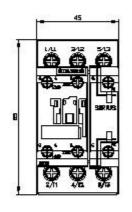


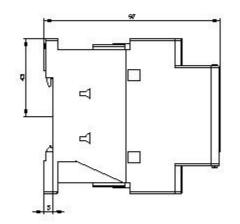
proportion of danger	ous failures					
 with low demand 	• with low demand rate acc. to SN 31920 40 %					
 with high demand rate acc. to SN 31920 		920	73 %			
failure rate [FIT] with low demand rate acc. to SN 31920		to SN 31920	100 FIT			
product function						
 mirror contact a 	cc. to IEC 60947-4-1	`	ſes			
T1 value for proof test interval or service life acc. to IEC 61508		e life acc. to	20 y			
protection class IP on the front acc. to IEC 60529			IP20			
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front			
suitability for use safet	ty-related switching ()FF `	Yes			
ertificates/ approvals	\$					
General Product Ap	proval				EMC	
		(UL) ut	<u>KC</u>	EHC	RCM	
Declaration of Confo	ormity	Test Certificate	S	Marine / Shipping		
	-					
<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	BUREAU VERITAS	
Marine / Shipping				other		
Llovd's Register us		RMRS	Envel Control	<u>Confirmation</u>	DE	
other						
Confirmation						
urther information	unloadconter (Catal					
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2023-1AP00						
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AP00</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AP00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1AP00⟨=en						
Characteristic: Tripp	ing characteristics,		rent			

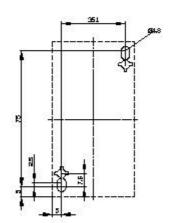
<u>nu</u> ww/en/p emens

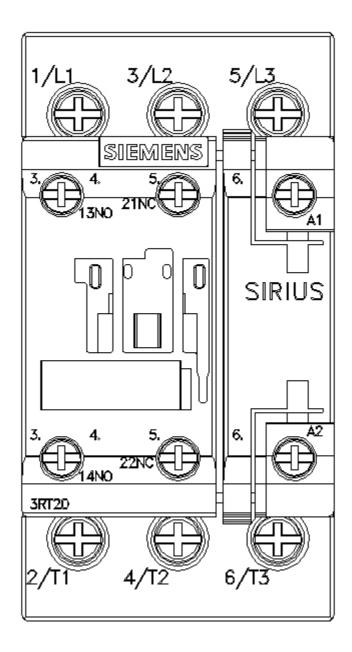
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1AP00&objecttype=14&gridview=view1

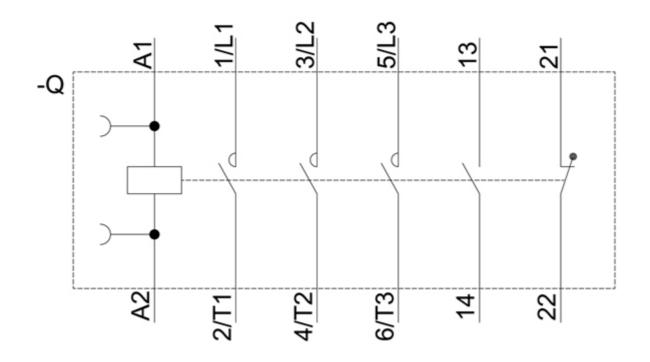












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