SIEMENS

Data sheet

3RT2025-2AF04



power contactor, AC-3 17 A, 7.5 kW / 400 V 2 NO + 2 NC, 110 V AC, 50 Hz, 3-pole, Size S0 Spring-type terminal Removable auxiliary switch

SIRIUS
Power contactor
3RT2
S0
No
No
2.7 W
0.9 W
7.6 W
6 kV
6 kV
400 V
7,5g / 5 ms, 4,7g / 10 ms
11,8g / 5 ms, 7,4g / 10 ms
10 000 000
5 000 000
10 000 000
Q
01.10.2009 00:00:00
2 000 m
-25 +60 °C
-55 +80 °C
3
3
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	40 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
 at A0-3 — at 400 V rated value 	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
 at OSO V rated value at AC-4 at 400 V rated value 	15.5 A
 at AC-5a up to 690 V rated value 	35.2 A
• at AC-5b up to 400 V rated value	14.1 A
• at AC-6a	14.1 A
 up to 230 V for current peak value n=20 rated 	11.4 A
value	
 — 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 	11.4 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	11.3 A
 at AC-ba — up to 230 V for current peak value n=30 rated 	7.6 A
value — up to 400 V for current peak value n=30 rated	7.6 A
value	7.6 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	7.6 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	7.7 A
• at 690 V rated value	7.7 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
operational current	

operating apparent power at AC-6a• up to 230 V for current peak value n=30 rated value• up to 400 V for current peak value n=30 rated value• up to 500 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value9.short-time withstand current in cold operating stateup to 40 °C• limited to 1 s switching at zero current maximum11• limited to 5 s switching at zero current maximum12• limited to 30 s switching at zero current maximum13• limited to 60 s switching at zero current maximum14• limited to 60 s switching at zero current maximum15• at AC00• at AC-1 maximum1• at AC-2 maximum1• at AC-3 maximum1• at AC-4 maximum1• at AC-4 maximum1• at AC-4 maximum1• at 50 Hz rated value• at 50 Hz rated value• at 50 Hz• at 50 Hz <tr< th=""><th>20 1/h C 10 V 8 1.1 5 V·A</th></tr<>	20 1/h C 10 V 8 1.1 5 V·A				
operating apparent power at AC-6aa• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5.• up to 500 V for current peak value n=30 rated value6.• up to 690 V for current peak value n=30 rated value9.short-time withstand current in cold operating state9.up to 40 °C• limited to 1 s switching at zero current maximum22.• limited to 5 s switching at zero current maximum14.• limited to 30 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum14.• at AC5.operating frequency• at AC• at AC-1 maximum1• at AC-2 maximum1• at AC-3 maximum1• at AC-4 maximum30.Control supply voltage of the control supply voltageA.control supply voltage at AC1• at 50 Hz rated value1• at 50 Hz0.	C 10 V				
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operating apparent power at AC-6aa• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5.• up to 500 V for current peak value n=30 rated value6.• up to 690 V for current peak value n=30 rated value9.short-time withstand current in cold operating state9.up to 40 °C•• limited to 1 s switching at zero current maximum22.• limited to 5 s switching at zero current maximum22.• limited to 10 s switching at zero current maximum14.• limited to 30 s switching at zero current maximum14.• limited to 60 s switching at zero current maximum96.• at AC5.operating frequency• at AC-1 maximum• at AC-2 maximum1• at AC-4 maximum1• at AC-4 maximum30.Control circuit/ Control40.type of voltage of the control supply voltageA.	C				
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operating apparent power at AC-6a 3 • up to 230 V for current peak value n=30 rated value 3 • up to 400 V for current peak value n=30 rated value 5 • up to 500 V for current peak value n=30 rated value 6 • up to 690 V for current peak value n=30 rated value 9 short-time withstand current in cold operating state 9 • limited to 1 s switching at zero current maximum 22 • limited to 5 s switching at zero current maximum 22	15 A; Use minimum cross-section acc. to AC-1 rated value				
operating apparent power at AC-6a3• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5.• up to 500 V for current peak value n=30 rated value6.• up to 690 V for current peak value n=30 rated value9.short-time withstand current in cold operating state9.• limited to 1 s switching at zero current maximum22.	30 A; Use minimum cross-section acc. to AC-1 rated value				
operating apparent power at AC-6a3• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5• up to 500 V for current peak value n=30 rated value6• up to 690 V for current peak value n=30 rated value9short-time withstand current in cold operating stateup to 40 °C	25 A; Use minimum cross-section acc. to AC-1 rated value				
operating apparent power at AC-6a3• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5• up to 500 V for current peak value n=30 rated value6• up to 690 V for current peak value n=30 rated value9short-time withstand current in cold operating state	25 A; Use minimum cross-section acc. to AC-1 rated value				
operating apparent power at AC-6aa• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5• up to 500 V for current peak value n=30 rated value6• up to 690 V for current peak value n=30 rated value9					
operating apparent power at AC-6a• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5.• up to 500 V for current peak value n=30 rated value6.					
operating apparent power at AC-6a• up to 230 V for current peak value n=30 rated value3• up to 400 V for current peak value n=30 rated value5.	6 kV·A 1 kV·A				
operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 3	2 kV·A				
operating apparent power at AC-6a	kV·A				
	3.6 kV·A				
	9 kV·A				
	8 kV-A				
	5 kV·A				
operating apparent power at AC-6a					
	kW				
	5 kW				
at AC-4	5 H M				
operating power for approx. 200000 operating cycles					
	1 kW				
— at 500 V rated value 7.	5 kW				
— at 400 V rated value 7.	5 kW				
- at 230 V rated value 4	kW				
• at AC-3					
operating power					
— at 600 V rated value 0.	6 A				
— at 440 V rated value 0.	6 A				
	D A				
	5 A				
	5 A				
with 3 current paths in series at DC-3 at DC-5					
	16 A				
	27 A				
	A				
	5 A				
	5 A				
 — at 600 V rated value with 2 current paths in series at DC-3 at DC-5 	00 A				
	0.09 A 0.06 A				
	A				
	5 A				

inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.02
• 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	8 40 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	 10 A
operational current at AC-12 maximum	
at 230 V rated value	6 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	6 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	14 A
• at 600 V rated value	17 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
- at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
- at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 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: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)

- with type of assignment 2 required

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

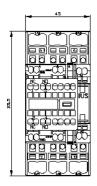
gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA)

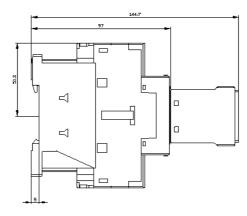
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted			
	forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	102 mm			
width	45 mm			
depth	144 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 	spring-loaded terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
 of magnet coil 	Spring-type terminals			
type of connectable conductor cross-sections				
 for main contacts 				
— solid	2x (1 10 mm²)			
— solid or stranded	2x (1 10 mm²)			
 finely stranded with core end processing 	2x (1 6 mm²)			
 finely stranded without core end processing 	2x (1 6 mm²)			
 at AWG cables for main contacts 	2x (18 8)			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
• stranded	1 10 mm²			
 finely stranded with core end processing 	1 6 mm²			
 finely stranded without core end processing 	1 6 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 1.5 mm²			
 finely stranded without core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 2.5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm²)			
 at AWG cables for auxiliary contacts 	2x (20 14)			
AWG number as coded connectable conductor cross				

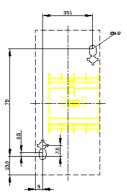
section			40	0		
 for main contact 			18 20			
for auxiliary con	niacis		20	. 14		
	afety related data product function mirror contact acc. to IEC 60947-4-1		Vee		_	
-			Yes	000		
proportion of dange	lemand rate acc. to SN	131920	450 000			
	nd rate acc. to SN 3192	20	40 %	(
	and rate acc. to SN 319		40 / 73 %			
	low demand rate acc.		73 % 100 FIT			
product function posi	tively driven operation		No			
60947-5-1 T1 value for proof te IEC 61508	est interval or service	life acc. to	20 у			
	on the front acc. to IE	C 60529	IP20)		
	the front acc. to IEC			er-safe, for vertical conta	ct from the front	
suitability for use						
 safety-related s 	switching OFF		Yes			
Certificates/ approva	-					
General Product A			_			EMC
General Product A	opiovai					ENIC
SP	(\mathbf{x})	(JL)		KC	FAL	Â
CSA	ccc	UL			LIIL	RCM
Functional Safety/Safety of Machinery	Declaration of Cor	formity		Test Certificates		Marine / Shipping
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>UK Declaratic</u> Conformit		Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping						
BUREAU VERITAS	Llovd's Register urs	PRS		RINA	RMRS	DNV-GL
other						
<u>Confirmation</u>		Confirmatio	<u>on</u>			
	VDE					
Further information						
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=3RT2025-2AF04 Cax online generator						
		//CAXorder/defau	lt.aspx	?lang=en&mlfb=3RT202	25-2AF04	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						

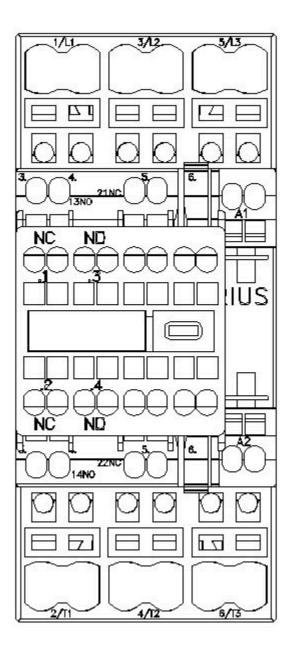
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2AF04

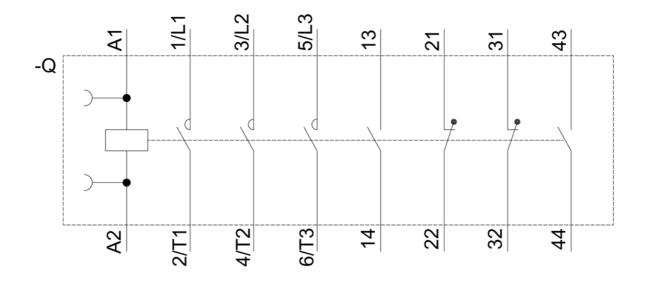
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2AF04&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2AF04/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-2AF04&objecttype=14&gridview=view1











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