SIEMENS

Data sheet

3RT2025-2AV00



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0 $\,$

product brand name SIRIUS product brand designation Power contactor general technical data SRIV General technical data So product systemsion So intention module for communication No auxiliary switch Yes power loss [M] for rated value of the current - at AC in hot operating state proble 0.6 W at AC in hot operating state proble 0.6 W of main circuit with degree of pollution 3 rated value 690 V of main circuit with degree of pollution 3 rated value 690 V of main circuit with degree of pollution 3 rated value 690 V of main circuit rated value 6 kV of main circuit rated value 6 kV of main circuit rated value 6 kV of auxiliary circuit rated value 10 00 V stack certange tectangular impulse 7,5g / 5 ms, 7,4g / 10 ms ot contactor with added electronically optimized auxiliary switch block typical 10 000 000 of the contactor with added added succertaically optimized auxiliary switch block typical 10 000 000 of the contactor with added addelectoronically optim					
product type designation 3RT2 General tachnical data	product brand name	SIRIUS			
General technical data S0 size of contactor S0 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • 8 W • at AC in hot operating state per pole 0.6 W • of main circuit with degree of pollution 3 rated value 690 V • of daxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with adde for other 64 V • of main circuit with adde for other 100 V • of auxiliary circuit rated value 64 V • of auxiliary switch block typical 10 000 0	product designation	Power contactor			
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Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature 2 000 m • during operation -25 +60 °C	 of the contactor with added auxiliary switch block typical 	10 000 000			
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	reference code according to IEC 81346-2	Q			
installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	10/01/2009			
ambient temperature • during operation -25 +60 °C	Ambient conditions				
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m			
	ambient temperature				
• during storage	during operation	-25 +60 °C			
	during storage	-55 +80 °C			
relative humidity minimum 10 %	relative humidity minimum	10 %			
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum		95 %			
Main circuit	Main circuit				
number of poles for main current circuit 3	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 	40 A
value	
• 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	35 A
value	
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• 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	
— 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	11.4 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	11.3 A
	7.6 A
 — up to 230 V for current peak value n=30 rated value — 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	7.6 A
— 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	10 mm ²
value	
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 60 V rated value	20 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 60 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 60 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
 at 1 current path at DC-3 at DC-5 	

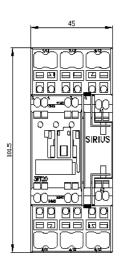
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— 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 60 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
	0.07
operating power • at AC-3	
	4 1404
- at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	4.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	3.5 kW
at 690 V rated value	6 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.9 kVA
 up to 690 V for current peak value n=20 rated value 	13.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	3 kVA
 up to 400 V for current peak value n=30 rated value 	5.2 kVA
 up to 500 V for current peak value n=30 rated value 	6.6 kVA
● up to 690 V for current peak value n=30 rated value	9.1 kVA
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum	225 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	225 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	189 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	140 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	115 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC

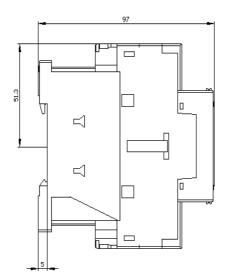
control supply voltage at AC	400 \/
• at 50 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	65 VA
	05 VA
inductive power factor with closing power of the coil • at 50 Hz	0.00
	0.82
apparent holding power of magnet coil at AC	7.01/4
• at 50 Hz	7.6 VA
inductive power factor with the holding power of the coil	0.05
• 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	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-12 maximum operational current at AC-15	
-	10.4
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	14 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
	1 hp
— 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

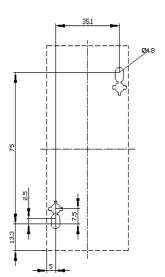
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)				
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)				
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)				
nstallation/ 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 DIN rail according to DIN EN 60715				
 side-by-side mounting 	Yes				
height	102 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	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	$2x (1 - 10 \text{ mm}^2)$				
• solid	2x (1 10 mm ²)				
solid or stranded	2x (1 10 mm ²)				
 finely stranded with core end processing finely stranded without core and processing 	$2x (1 6 mm^2)$				
finely stranded without core end processing	2x (1 6 mm²)				
connectable conductor cross-section for main contacts	1 10 mm²				
• solid	1 10 mm ²				
• stranded	1 10 mm ²				
• finely stranded with core end processing	1 6 mm ²				
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 mm²				
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)				
 for AWG cables for auxiliary contacts 	2x (20 14)				
AWG number as coded connectable conductor cross section					
 for main contacts 	18 8				
 for auxiliary contacts 	20 14				

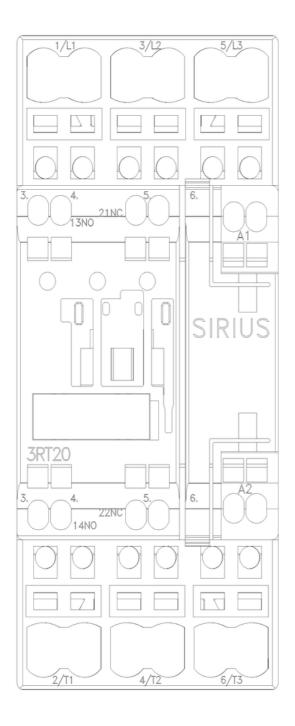
product function						
 mirror contact ad 	ccording to IEC 60947-4-1		Yes			
B10 value with high de	mand rate according to S	N 31920	450 000			
proportion of danger	ous failures					
	d rate according to SN 31	920	40 %			
with high demand rate according to SN 31920			40 % 73 %			
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920			73 % 100 FIT			
	interval or service life acc		20 a			
61508			20 a			
protection class IP or	the front according to	IEC 60529	IP20			
-	he front according to IE		finger-safe fo	r vertical contact	from the front	
suitability for use						
 safety-related sv 	vitching OFF		Yes			
Certificates/ approvals	interning of t					
General Product App	roval					
General Product App	rovai					
		<u>Confirmatio</u>	<u>n</u>	(ال س	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA		CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping	BUREAU VERITAS			Lloyds Register uis	PRS	RINA
Marine / Shipping	other				Railway	Environment
RMRS	<u>Confirmation</u>		<u>C</u>	<u>onfirmation</u>	Vibration and Shock	Environmental Con- firmations
	to exit the Russian man					
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