SIEMENS

Data sheet

3RT2028-1AF00



Contactor, AC-3, 18.5 kW / 400 V, 1 NO + 1 NC, 110 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	11.4 W
• per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	9.8 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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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
Substance Prohibitance (Date)	01.10.2009 00:00:00
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

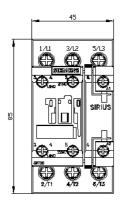
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value	22 A
 at AC-5a up to 690 V rated value 	44 A
● at AC-5b up to 400 V rated value	31.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	30.8 A
 — up to 400 V for current peak value n=20 rated value 	30.8 A
— up to 500 V for current peak value n=20 rated value	30.8 A
 up to 690 V for current peak value n=20 rated value 	21 A
at AC-6a up to 230 V for current peak value n=30 rated	20.5 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 — up to 500 V for current peak value n=30 rated	20.5 A 21.4 A
value — up to 690 V for current peak value n=30 rated	21 A
value	
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 	12 A
• at 690 V rated value	12 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	25.4
— at 24 V rated value	35 A
	35 A
— at 110 V rated value	
— at 220 V rated value	35 A
— at 220 V rated value — at 440 V rated value	2.9 A
— at 220 V rated value — at 440 V rated value — at 600 V rated value	
— at 220 V rated value — at 440 V rated value	2.9 A

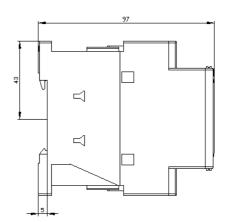
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	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	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	10 0 1 1 1 1
• up to 230 V for current peak value n=20 rated value	12.2 kV·A
• up to 400 V for current peak value n=20 rated value	21.3 kV·A
• up to 500 V for current peak value n=20 rated value	26.6 kV·A
up to 690 V for current peak value n=20 rated value	25 kV·A
operating apparent power at AC-6a	9.4 10/ 4
• up to 230 V for current peak value n=30 rated value	8.1 kV·A
• up to 400 V for current peak value n=30 rated value	14.2 kV·A
• up to 500 V for current peak value n=30 rated value	18.5 kV·A
up to 690 V for current peak value n=30 rated value	25 kV·A
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	593 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	152 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	750 1/h
• at AC-3 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	110 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	77.1/ /
• at 50 Hz	77 V·A

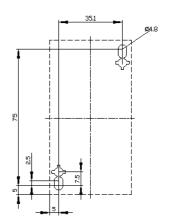
inductive nower factor with closing newer of the seil	
inductive power factor with closing power of the coil • at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.02
apparent noting power of magnet coll at AC o at 50 Hz	9.8 V·A
inductive power factor with the holding power of the	
coil	
• at 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	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	10.1
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
at 230 V rated value at 400 V rated value	10 A
at 400 V rated value	3 A
 at 500 V rated value at 690 V rated value 	2 A 1 A
operational current at DC-12	
at 24 V rated value	10 A
at 24 V rated value 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	1A
at 220 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	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	25 hp
— at 575/600 V rated value	25 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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A

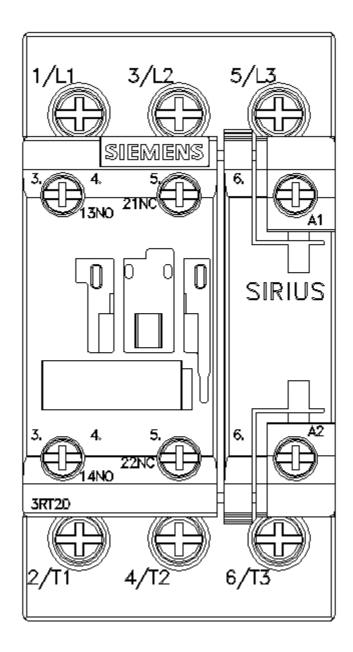
— with type of assignment 2 required	(415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,		
 for short-circuit protection of the auxiliary switch 	80kA) gG: 10 A (500 V, 1 kA)		
required			
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical 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			
type of electrical connection • for main current circuit	screw-type terminals		
	screw-type terminals screw-type terminals		
for main current circuit			
 for main current circuit for auxiliary and control circuit 	screw-type terminals		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	screw-type terminals Screw-type terminals		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections 	screw-type terminals Screw-type terminals		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts 	screw-type terminals Screw-type terminals Screw-type terminals		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts – solid 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm²), 2x (2.5 10 mm²)		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts – solid – solid or stranded 	screw-type terminals Screw-type terminals Screw-type terminals $2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$ $2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts golid golid golid or stranded finely stranded with core end processing 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2,5 mm ²), 2x (2,5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing at AWG cables for main contacts 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2,5 mm ²), 2x (2,5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²		
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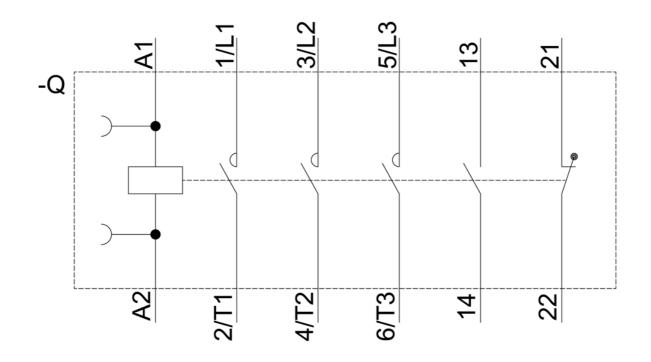
Safety related data							
product function mi	roduct function mirror contact acc. to IEC 60947-4-1			Yes			
B10 value with high o	310 value with high demand rate acc. to SN 31920						
proportion of dangerous failures							
 with low deman 	nd rate acc. to SN 31920	40) %				
 with high dema 	and rate acc. to SN 31920	73	3 %				
failure rate [FIT] with	low demand rate acc. to	SN 31920 10	00 FIT				
	est interval or service lif	e acc. to 20) у				
IEC 61508 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	•						
 safety-related s 	safety-related switching OFF						
Certificates/ approval	ls						
General Product A	pproval				EMC		
() E		U	KC	EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Confo	rmity	Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK Declaration of Conformity	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping					other		
B U R E A U VERITAS	Lloydis Register us	RINA	RMRS	DNV-GL	<u>Confirmation</u>		
other							
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https://www.siemens.com/ic10							
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2028-1AF00							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1AF00 Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.indust	try.siemens.com/cs/ww/er	n/ps/3RT2028-1AF	<u>00</u>				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1AF00⟨=en							
Characteristic: Trip	ping characteristics, I ² t,	Let-through curre	ent				
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AF00/char Further characteristics (e.g. electrical endurance, switching frequency)							
runner characteristics (e.g. electrical endurance, switching frequency)							











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