SIEMENS

Data sheet

3RT2036-1AF00



power contactor, AC-3 50 A, 22 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz, 3-pole, Size S2, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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	12 W
• per pole	4 W
power loss [W] for rated value of the current without load current share typical	16 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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)	01.10.2014 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 	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
 at AC-5a up to 690 V rated value 	61.6 A
● at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	20.0 \
— up to 230 V for current peak value n=30 rated value	28.8 A
— up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated	28.8 A 28.8 A
value — up to 690 V for current peak value n=30 rated	24 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	24 A
 at 690 V rated value 	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 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	55 A
— at 110 V rated value	45 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	55 A
— at 24 V rated value — at 110 V rated value	55 A
— at 24 V rated value — at 110 V rated value — at 220 V rated value	55 A 45 A
 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	55 A 45 A 2.9 A
 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	55 A 45 A
 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	55 A 45 A 2.9 A

Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz	AC 110 V 0.8 1.1
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated	
type of voltage of the control supply voltage control supply voltage at AC	
type of voltage of the control supply voltage	AC
	AC
Control circuit/ Control	
• at AC-4 maximum	250 1/h
• at AC-2 maximum • at AC-3 maximum	800 1/h
 at AC-1 maximum at AC-2 maximum 	1 000 1/h 600 1/h
operating frequency	1.000.1/b
• at AC	5 000 1/h
no-load switching frequency	5 000 1/b
Imited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 a guitabing at zero surrant maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 20 s switching at zero surrent maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero surrent maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
up to 40 °C	027 A: Use minimum cross section and to AC 4 retadiuslys
short-time withstand current in cold operating state	
 up to 690 V for current peak value n=30 rated value 	28.6 kV·A
 up to 500 V for current peak value n=30 rated value 	24.9 kV·A
 up to 400 V for current peak value n=30 rated value 	19.9 kV·A
 up to 230 V for current peak value n=30 rated value 	11.4 kV·A
operating apparent power at AC-6a	
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
• up to 500 V for current peak value n=20 rated value	37.4 kV·A
• up to 400 V for current peak value n=20 rated value	29.9 kV·A
• up to 230 V for current peak value n=20 rated value	17.2 kV·A
operating apparent power at AC-6a	
• at 690 V rated value	18.2 kW
at 400 V rated value	12.6 kW
at AC-4	
— at 690 V rated value operating power for approx. 200000 operating cycles	22 kW
	30 kW
— at 400 V rated value — at 500 V rated value	22 kW 30 kW
— at 230 V rated value	15 kW
• at AC-3	15 kW
• at AC-2 at 400 V rated value	22 kW
operating power	22 1/11
— at 600 V rated value	0.35 A
— at 440 V rated value	0.6 A
— at 220 V rated value	25 A
— at 110 V rated value	55 A
— at 24 V rated value	55 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 600 V rated value	0.16 A
— at 440 V rated value	0.27 A
— at 220 V rated value	5 A
— at 110 V rated value	25 A
— at 24 V rated value	55 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 600 V rated value	0.06 A
— at 440 V rated value	0.1 A
— at 220 V rated value	1A
 — at 110 V rated value 	2.5 A

	400.1/ A
• at 50 Hz	190 V·A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
apparent holding power of magnet coil at AC • at 50 Hz	16 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 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 	52 A
 at 600 V rated value 	52 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 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 	

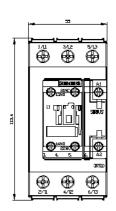
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)		
- with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 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	114 mm		
width	55 mm		
depth	130 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		
	screw-type terminals		
 for auxiliary and control circuit 			
 for auxiliary and control circuit at contactor for auxiliary contacts 	Screw-type terminals		
-			
at contactor for auxiliary contacts	Screw-type terminals		
at contactor for auxiliary contactsof magnet coil	Screw-type terminals		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections	Screw-type terminals		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of main contacts	Screw-type terminals Screw-type terminals		
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded 	Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)		
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing 	Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²)		
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main 	Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²)		
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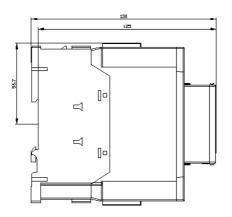
proportion of dang	analia failunaa			
		40.0/		
	ind rate acc. to SN 31920	40 %		
-	and rate acc. to SN 31920	73 % 100 FIT		
	low demand rate acc. to SN 31920	100 FIT		
60947-5-1	itively driven operation acc. to IEC	No		
T1 value for proof t IEC 61508	test interval or service life acc. to	20 у		
protection class IP	on the front acc. to IEC 60529	IP20		
touch protection of	n the front acc. to IEC 60529	finger-safe, for vertical con-	tact from the front	
suitability for use				
 safety-related 	switching OFF	Yes		
ertificates/ approva	als			
General Product A	pproval			EMC
SP Esa			EHC	RCM
Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates		Marine / Shippir
<u>Type Examination</u> <u>Certificate</u>	UK Declaration of Conformity EG-Ke	E <u>Type Test Certific-ates/Test Report</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping				
BUREAU VERITAS	Llovd's Register URS PRS	RINA	RMRS	DIVICE DIVICE
other				
VERITAS	Llovds Register us Prs	RINA	RMRS	DNV-G ENVILLER

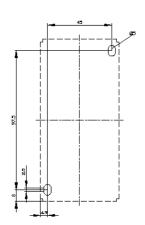
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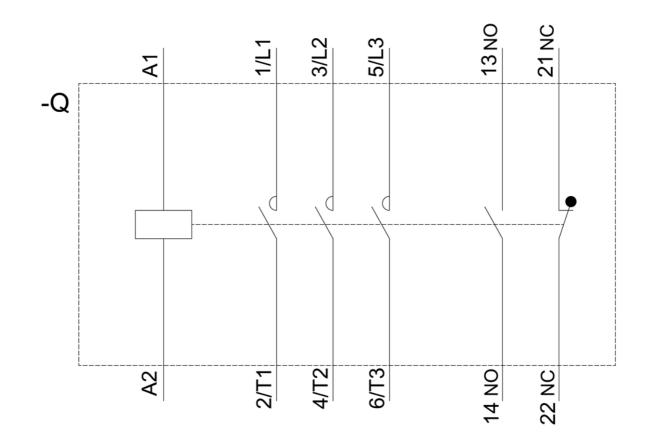
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AF00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AF00&objecttype=14&gridview=view1









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