SIEMENS

Data sheet

3RT2037-3AG16



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 110 V AC, 60 Hz, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, lateral auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	\$2
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	6.9 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.1g / 5 ms, 6.2g / 10 ms
shock resistance with sine pulse	
● at AC	14.2g / 5 ms, 9.6g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

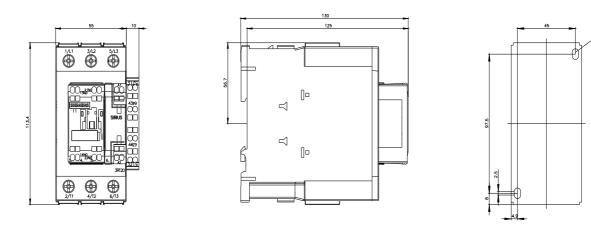
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	80 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
 at AC-5b up to 400 V rated value at AC-6a 	53.9 A
	56.9 A
— up to 230 V for current peak value n=20 rated value	
— up to 400 V for current peak value n=20 rated value	56.9 A 56.9 A
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	47 A
• at AC-6a	4/ A
 up to 230 V for current peak value n=30 rated value 	38 A
— up to 200 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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 60 V rated value	45 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 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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 	

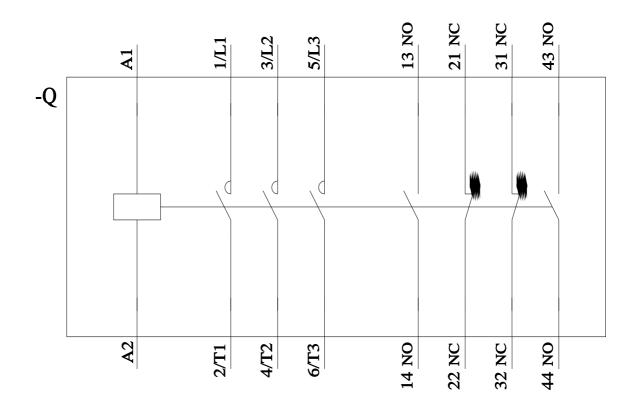
— at 24 V rated value	35 A				
— at 60 V rated value	6 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.1 A				
— at 600 V rated value	0.06 A				
 with 2 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	55 A				
— at 60 V rated value	45 A				
— at 110 V rated value	25 A				
— at 220 V rated value	5A				
- 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	55 A				
— at 60 V rated value	55 A				
— at 110 V rated value	55 A				
— at 220 V rated value	25 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	30 kW				
• at AC-3					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
• at AC-3e					
- at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC- 4					
at 400 V rated value	14.7 kW				
at 690 V rated value	20 kW				
	20 KW				
operating apparent power at AC-6a	00.013/4				
 up to 230 V for current peak value n=20 rated value 	22.6 kVA				
	39.4 kVA				
• up to 400 V for current peak value n=20 rated value					
	49.2 kVA				
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 60 Hz	212 VA
inductive power factor with closing power of the coil	
• at 60 Hz	0.67
apparent holding power of magnet coil at AC	40.5.14
• at 60 Hz	18.5 VA
inductive power factor with the holding power of the coil	0.07
• at 60 Hz	0.37
closing delay	10 80 ms
• at AC	10 60 IIIS
opening delay • at AC	10 18 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
	Standard AT - Az
Auxiliary circuit	2
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-15	
• 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	65 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value — at 575/600 V rated value	50 hp 50 hp

contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection	10007 2000	
design of the fuse link		
for short-circuit protection of the main circuit		
- with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80	
	(413 V, 80 KA), ANN 100 KA), ANN 100 KA), ANN 100 KA), BOOD 200 K (413 V, 80 KA)	
 — with type of assignment 2 required 	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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 DIN rail according to DIN EN 60715	
 side-by-side mounting 	Yes	
height	114 mm	
width	75 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	
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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)	
connectable conductor cross-section for main contacts		
	1 35 mm²	
finely stranded with core end processing connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm²	
 solid of stranded finely stranded with core end processing 	0.5 2.5 mm²	
	0.5 1.5 mm ²	
finely stranded without core end processing	0.0 2.0 mm	
 type of connectable conductor cross-sections for auxiliary contacts 		
	$2x (0.5 - 2.5 \text{ mm}^2)$	
 — solid or stranded finally stranded with core and processing 	2x (0.5 2.5 mm ²)	
 finely stranded with core end processing finely stranded without core and processing 	2x (0.5 1.5 mm ²)	
 finely stranded without core end processing for AWC cobles for auxiliary contacts 	2x (0.5 2.5 mm ²)	
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	2x (20 14)	
for main contacts	18 1	
for auxiliary contacts	20 14	
· · · · ·		
Safety related data		
product function	Vac	
mirror contact according to IEC 60947-4-1 positively driven exerction according to IEC 60947.5.1	Yes	
 positively driven operation according to IEC 60947-5-1 	No	

suitability for use safety	/-related switching OFF	Yes	3		
B10 value with high dep	mand rate according to SN	31920 1 0	00 000		
proportion of dangero	ous failures				
	I rate according to SN 3192				
	d rate according to SN 319				
	w demand rate according t) FIT		
T1 value for proof test i 61508	nterval or service life accor	ding to IEC 20 a	а		
protection class IP or	the front according to IE	C 60529 IP2	0		
touch protection on the	he front according to IEC	60529 fing	er-safe, for vertical contact	from the front	
ertificates/ approvals					
General Product App	roval				
S.	<u>Confirmation</u>			KC	EAC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confe	ormity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	BUREAU		Lloyd's Register us	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
KMRS	<u>Confirmation</u>	<u>Confirmation</u>	<u>Vibration and Shock</u>	Transport Information	Environmental Con firmations
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