## SIEMENS

## Data sheet

## 3RT2027-2XG40-0LA2



traction contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 125 V DC, 0.7-1.25\* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS		
product designation	Power contactor		
design of the product	With extended operating range		
product type designation	3RT2		
General technical data			
size of contactor	S0		
product extension	50		
function module for communication	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
	8.1 W		
at AC in hot operating state     at AC in hot operating state			
at AC in hot operating state per pole	2.7 W		
without load current share typical	1.3 W		
insulation voltage	202.1/		
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 DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at DC	15g / 5 ms, 10g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-40 +70 °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	50 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	50 A
value	
— up to 690 V at ambient temperature 60 °C rated value	42 A
at AC-2 at 400 V rated value	32 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 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
minimum cross-section in main circuit	
at maximum AC-1 rated value	10 mm²
at maximum //or indee value     at maximum lth rated value	10 mm <sup>2</sup>
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	
— 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 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 24 V rated value — at 110 V rated value	35 A 15 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	35 A 15 A 3 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	35 A 15 A 3 A 0.27 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	35 A 15 A 3 A

— 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					
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	15 kW				
• at AC-3					
— at 230 V rated value	7.5 kW				
— at 400 V rated value	15 kW				
— at 500 V rated value	15 kW				
— at 690 V rated value	18.5 kW				
• at AC-3e					
— at 230 V rated value	7.5 kW				
— at 400 V rated value	15 kW				
— at 500 V rated value	15 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				
short-time withstand current in cold operating state up to 40 $^{\circ}\mathrm{C}$					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	499 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	341 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	199 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	162 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	1 500 1/h				
operating frequency					
• at AC-1 maximum	750 1/h				
• at AC-2 maximum	750 1/h				
• at AC-3 maximum	750 1/h				
• at AC-3e maximum	750 1/h				
• at AC-2 at AC-3e maximum	750 1/h				
• at AC-4 maximum	250 1/h				
	250 1/11				
Ratings for railway applications					
thermal current (Ith) up to 690 V					
<ul> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	50 A				
<ul> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	36 A				
Control circuit/ Control					
type of voltage	DC				
type of voltage of the control supply voltage	DC				
control supply voltage at DC					
rated value	125 V				
operating range factor control supply voltage rated value of magnet coil at DC					
• initial value	0.7				
• full-scale value	1.25				
design of the surge suppressor	with varistor				
duration of locked-rotor current	180 ms				
closing power of magnet coil at DC	13.2 W				
holding power of magnet coil at DC	1.3 W				
closing delay					
• at DC	50 75 ms				
opening delay					
• at DC	30 50 ms				
arcing time	10 10 ms				
	Standard A1 - A2				
control version of the switch operating mechanism					
Auxiliary circuit					

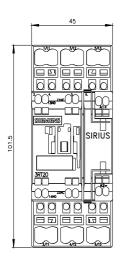
number of NC contacts for auxiliary contacts	1		
instantaneous contact	1		
number of NO contacts for auxiliary contacts	1		
instantaneous contact	1		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
<ul> <li>at 230 V rated value</li> </ul>	10 A		
<ul> <li>at 400 V rated value</li> </ul>	3 A		
● at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational current at DC-12			
<ul> <li>at 24 V rated value</li> </ul>	10 A		
<ul> <li>at 48 V rated value</li> </ul>	6 A		
<ul> <li>at 60 V rated value</li> </ul>	6 A		
<ul> <li>at 110 V rated value</li> </ul>	3 A		
<ul> <li>at 125 V rated value</li> </ul>	2 A		
<ul> <li>at 220 V rated value</li> </ul>	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		
<ul> <li>at 220 V rated value</li> </ul>	0.3 A		
● at 600 V rated value	0.1 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
<ul> <li>at 480 V rated value</li> </ul>	27 A		
• at 600 V rated value	27 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	2 hp		
— at 230 V rated value	5 hp		
<ul> <li>for 3-phase AC motor</li> </ul>			
— at 200/208 V rated value	10 hp		
— at 220/230 V rated value	10 hp		
— at 460/480 V rated value	20 hp		
— at 575/600 V rated value	25 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
product function short circuit protection	No		
design of the fuse link			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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	102 mm		
width	45 mm		
depth	107 mm		
required spacing			
with side-by-side mounting			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		

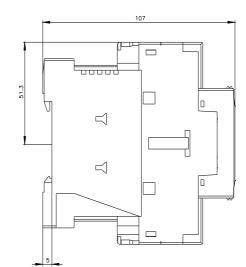
e for grounded parts				
for grounded parts     forwards	10 mm			
— forwards — upwards	10 mm 10 mm			
	6 mm			
— at the side				
downwards	10 mm			
• for live parts	10			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	spring-loaded terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0.5 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)			
AWG number as coded connectable conductor cross				
section				
<ul> <li>for main contacts</li> </ul>	18 8			
	18 8 20 14			
for main contacts				
<ul><li>for main contacts</li><li>for auxiliary contacts</li></ul>				
for main contacts         for auxiliary contacts Safety related data product function				
for main contacts         for auxiliary contacts         Safety related data         product function         mirror contact according to IEC 60947-4-1	20 14			
for main contacts         for auxiliary contacts         Safety related data         product function             e mirror contact according to IEC 60947-4-1             e positively driven operation according to IEC 60947-5-1	20 14 Yes			
for main contacts         for auxiliary contacts         Safety related data         product function             e mirror contact according to IEC 60947-4-1             e positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920	20 14 Yes No			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> </ul>	20 14 Yes No			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures         <ul> <li>with low demand rate according to SN 31920</li> </ul> </li> </ul>	20 14 Yes No 450 000			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	20 14 Yes No 450 000 40 %			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC</li>	20 14 Yes No 450 000 40 % 73 %			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	20 14 Yes No 450 000 40 % 73 % 100 FIT			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul> T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	20 14 Yes No 450 000 40 % 73 % 100 FIT 20 a IP20			
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	20 14 Yes No 450 000 40 % 73 % 100 FIT 20 a			
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<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> B10 value with high demand rate according to SN 31920 proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> </ul> failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication Certificates/ approvals	20 14 Yes No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front			
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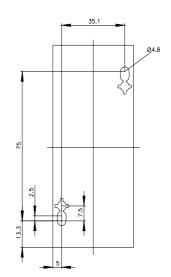
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Marine / Shipping	other		Railway		Dangerous Good
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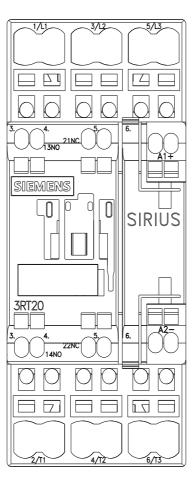
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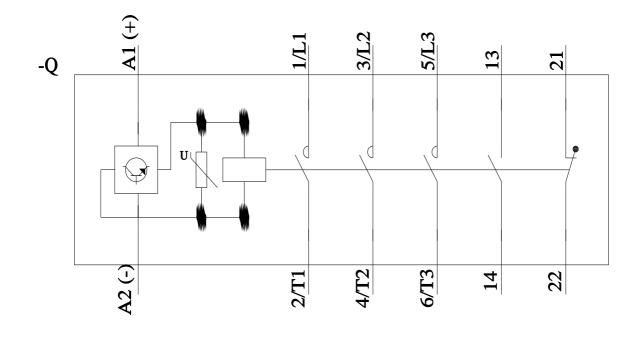
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2XG40-0LA2&objecttype=14&gridview=view1











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