SIEMENS

Data sheet 3RT2027-2KA40



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 12 V DC, 0.7-1.25* Us, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	6.3 W
 at AC in hot operating state per pole 	2.3 W
without load current share typical	4.5 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 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)	
 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)	10/01/2009
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 	50 A		
value			
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated	50 A		
value	40 A		
 up to 690 V at ambient temperature 60 °C rated value 	42 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		
	21 A		
— at 690 V rated value• at AC-4 at 400 V rated value	22 A		
	44 A		
at AC-5a up to 690 V rated value			
at AC-5b up to 400 V rated value	26.5 A		
• at AC-6a	00.0 A		
— 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	27 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 value 	20.5 A		
 up to 400 V for current peak value n=30 rated value 	20.5 A		
 up to 500 V for current peak value n=30 rated value 	18 A		
 up to 690 V for current peak value n=30 rated value 	18 A		
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²		
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 60 V rated value	20 A		
— at 110 V rated value	4.5 A		
— at 220 V rated value	1A		
— 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	1A		
— at 600 V rated value	0.8 A		
with 3 current paths in series at DC-1 at 24 V rated value.	25 A		
— 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 M rated value	20. A		
— 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		
operating power			
• at AC-2 at 400 V rated value	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		
operating apparent power at AC-6a			
	12.2 kVA		
 up to 230 V for current peak value n=20 rated value 	12.2 (())		
up to 230 V for current peak value n=20 rated valueup to 400 V for current peak value n=20 rated value	21.3 kVA		
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• up to 400 V for current peak value n=20 rated value	21.3 kVA		
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	21.3 kVA 23.3 kVA		
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	21.3 kVA 23.3 kVA		
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value	21.3 kVA 23.3 kVA 25 kVA 8.1 kVA		
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a 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 value	21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA		
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a 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 value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum ro-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA 15.5 kVA 21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 192 A; Use minimum cross-section acc. to AC-1 rated value 1500 1/h 1000 1/h 750 1/h 750 1/h		
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a 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 value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum ro-load switching frequency at DC operating frequency at AC-1 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 e maximum	21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA 15.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 1500 1/h 1 000 1/h 750 1/h 750 1/h 750 1/h		

type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	12 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
closing power of magnet coil at DC	4.5 W
holding power of magnet coil at DC	4.5 W
closing delay	
• at DC	52 270 ms
opening delay	
• at DC	19 21 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	1
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	
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-13at 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	27 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	2 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	20 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 (415V,80kA)		
with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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	102 mm		
width	45 mm		
depth	107 mm		
required spacing			
with side-by-side mounting	40		
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
for grounded parts— forwards	10 mm		
— torwards — upwards	10 mm		
— upwards — at the side	6 mm		
— at the side — 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			
• solid	2x (1 10 mm²)		
 solid or stranded 	2x (1 10 mm²)		
 finely stranded with core end processing 	2x (1 6 mm²)		
 finely stranded without core end processing 	2x (1 6 mm²)		
connectable conductor cross-section for main contacts			
• solid	1 10 mm²		
• stranded	1 10 mm²		
 finely stranded with core end processing 	1 6 mm²		
finely stranded without core end processing	1 6 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
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	0.405.05.3		
— 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 AWG number so coded connectable conductor areas.	2x (20 14)		
AWG number as coded connectable conductor cross section			
for main contacts	18 8		
for auxiliary contacts	20 14		
Safety related data			
product function			
	Yes		
 mirror contact according to IEC 60947-4-1 	165		

proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
 with high demand rate according to SN 31920 	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
suitability for use		
 safety-related switching OFF 	Yes	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-2KA40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2027-2KA40}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2KA40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

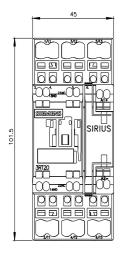
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2KA40\&lang=en}}$

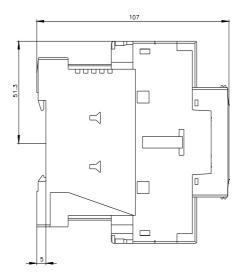
Characteristic: Tripping characteristics, I²t, Let-through current

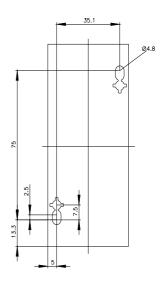
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2KA40/char

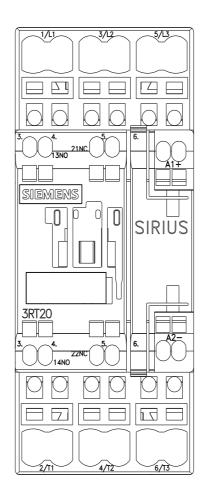
Further characteristics (e.g. electrical endurance, switching frequency)

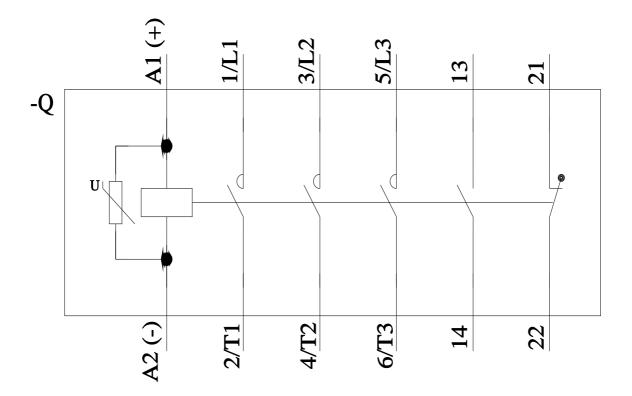
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2KA40&objecttype=14&gridview=view1











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