SIEMENS

Data sheet

3RT2027-1CK64-3MA0



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
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 	10.5 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 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 (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 value	50 A
— up to 690 V at ambient temperature 60 °C rated	42 A
value	
● 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
• at AC-5a up to 690 V rated value	44 A
 at AC-5b up to 400 V rated value at AC-6a 	26.5 A
	30.8 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 — up to 500 V for current peak value n=20 rated value 	30.8 A 27 A
— up to 500 V for current peak value n=20 rated value	21 A 21 A
• at AC-6a	21A
 up to 230 V for current peak value n=30 rated value 	20.5 A
— up to 200 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	10 mm ²
value	
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	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 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	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 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 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	
 up to 230 V for current peak value n=20 rated value 	12.2 kVA
 up to 400 V for current peak value n=20 rated value 	21.3 kVA
 up to 500 V for current peak value n=20 rated value 	23.3 kVA
 up to 690 V for current peak value n=20 rated value 	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
	15.5 kVA
 up to 500 V for current peak value n=30 rated value 	
• up to 690 V for current peak value n=30 rated value	21.5 kVA
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	21.5 kVA
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum 	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 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 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	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
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	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
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	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
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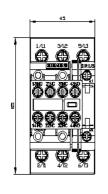
type of voltage of the control supply voltage	AC
control supply voltage at AC	440.14
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
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	2
contact	
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 24 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
	0.5 A 0.1 A
at 600 V rated value	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/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
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor	27 A

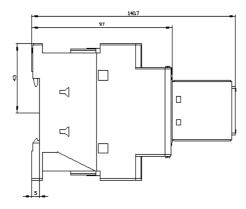
at 110/120 V rated value	2 hz			
— at 110/120 V rated value	2 hp			
— at 230 V rated value	5 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	10 hp			
— at 460/480 V rated value	20 hp			
— at 575/600 V rated value	25 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
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	85 mm			
width	45 mm			
depth	141 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 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
 of magnet coil 	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
solid or stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)			
 finely stranded with core end processing 	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
• stranded	1 10 mm ²			
 finely stranded with core end processing 	1 10 mm ²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 2.5 mm²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
for auxiliary contacts				
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)			
·				
AWG number as coded connectable conductor cross				

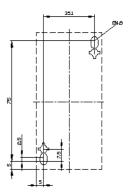
• for main contacts 168 • for auxiliary contacts 20 14 State yrelated dats Product function • ninror contact according to IEC 60947-5-1 No B10 value with high demand rate according to SN 31920 450.000 proportion of dangerous failures 450.000 • with high demand rate according to SN 31920 73.% • with low demand rate according to SN 31920 73.% • with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 60529 100 FIT T1 value for proof test interval or service life according to IEC 60529 100 FIT suitability for use 20 a • astery/Safety of Ma Yes Contificates/ approvals Yes Contificates/ approvals Yes EINC Functional Safety/Safety of Ma- chinery Declaration of Conformity Test Certificates Marine / Shipping Yupe Tast Certificat Marine / Shipping	section						
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 F10 value with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to IEC 60529 protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 with bill with with or with		s		16 8	}		
Safety related data product function initra condital according to IEC 60947-4-1 Yes inpositively driven operation according to IEC 60947-5-1 No Intervent of adaptions failures invitre operation according to SN 31920 450 000 Proportion of datagenous failures invitre operation according to SN 31920 40 % 450 000 invitre operation adaptions failures 450 000 73 % invitre operation adaptions failures 40 % 40 % invitre operation adaptions failures 50 001 73 % failure rate [T1] with to demand rate according to IEC 60529 100 FIT true to protection on the front according to IEC 60529 1920 totube for protection on the front according to IEC 60529 1920 totube for proval Edity-related switching OFF Yes confirmation Confirmation Confirmation failed all proval Edity-failed switching OFF Yes EMC Functional steal/self Edity-failed switching OFF Yes failed addity Edity-faile							
 mirror contact according to IEC 60947-4-1 positively driven operation according to SN 31920 Proportion of dangerous failures with high demand rate according to SN 31920 add for proof test interval or service life according to IEC 60529 protection on the front according to IEC 60529	•						
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proportion of dangerous failures 40 % • with low demand rate according to SN 31920 73 % failure rate [FT] with low demand rate according to SN 31920 100 FT T1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IP20 fulue rate [FT] with low demand rate according to IEC 60529 IP20 suitability for use	 positively driven 	operation according to IEC	60947-5-1	No			
• with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FT] with low demand rate according to SN 31920 100 FT T value for proof test interval or service life according to IEC 60529 20 a protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Yes Protection and the front according to IEC 60529 sately-related switching OFF Declaration of Conformation Conformat	B10 value with high de	mand rate according to SN	31920	450 00	0		
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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 20 a gios 20 a protection class IP on the front according to IEC 60529 IP20 fullue rate difference Image-safe, for vertical contact from the front suitability for use	 with low demand 	d rate according to SN 3192	20	40 %			
T1 value for proof test interval or service life according to IEC 20 a protection class IP on the front according to IEC 60529 IP20 finger-safe, for vertical contact from the front suitability for use estedy-related switching OFF Yes central Product Approval Yes Confirmation KC EMC Functional Safety/Safety of Machinery chinery Declaration of Conformity Type Test Certificates Marine / Shipping Marine / Shipping If Safety Safety with Shipping If Safety without If Safety Sufficience Railway Transition Cere Safety If Safety Safety I	 with high deman 	nd rate according to SN 319	920	73 %			
61508 Protection class IP on the front according to IEC 60529 IP20 suitability for use e safely-related switching OFF Ves Protection on the front according to IEC 60529 Suitability for use e safely-related switching OFF Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Ves Protection class IP on the front according to IEC 60529 Confirmation Class Upper Examination Class Ipper Test Certific: acs/Test Report Protection of Conformation IP Confirmation IP Confirmation IP Confirmation IP Confirmation IP Confirmation IP Confirmation	failure rate [FIT] with lo	ow demand rate according t	to SN 31920	100 FI	Т		
touch protection on the front according to IEC 60529 inger-safe, for vertical contact from the front suitability for use - safety-related switching OFF Yes Centificates / approvals General Product Approvals General Product Approvals Confirmation General Product Approvals General Product Approvals General Product Approvals Confirmation Confirmation of Conformity Safety/Safety of Ma- chinery Operation of Conformity Type Examination Cer- tificate Confirmation Marine / Shipping Operation Operation Operation Operation Operation Operation Operation Safety of Ma- chinery Operation Operation Operation Operation Operation Operation <t< td=""><td></td><td>interval or service life acco</td><td>rding to IEC</td><td>20 a</td><td></td><td></td><td></td></t<>		interval or service life acco	rding to IEC	20 a			
Suitability for use	protection class IP or	n the front according to I	EC 60529	IP20			
e safety-related switching OFF Yes Serviticates/ approvals General Product Approval Confirmation Confirmatio	touch protection on t	the front according to IEC	60529	finger-	safe, for vertical contact	from the front	
Confirmation KC EMC Functional Safety/Safety of Ma- chinery Declaration of Conformity Test Certificates Marine / Shippin Marine / Shipping LYpe Examination Cer- tificate LYpe Examination Cer- tificate LYpe Examination Cer- tificate LYpe Test Certific- ates/Test Report Other Marine / Shipping Lis Lis Lis Lis Lis Lis Confirmation other Railway Environmental Con- Lis Lis Environmental Con- Lis	suitability for use						
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Confirmation Vibration and Shock Environmental Con-	BUREAU VERITAS		Hoyd's Register LRS		RINA	RMRS RMRS	<u>Confirmation</u>
	other		Railway		Environment		
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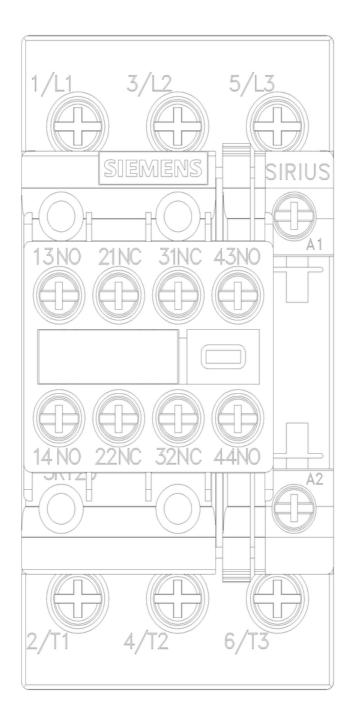
Further information

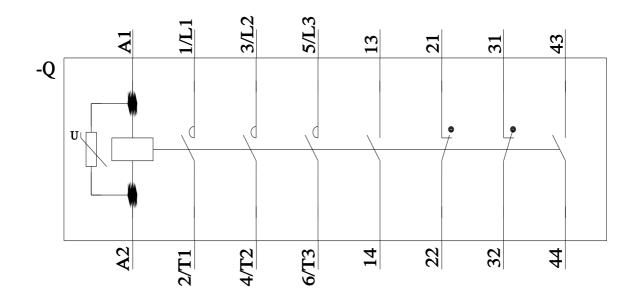
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification 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=3RT2027-1CK64-3MA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1CK64-3MA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1CK64-3MA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1CK64-3MA0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1CK64-3MA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1CK64-3MA0&objecttype=14&gridview=view1











last modified:

2/10/2023 🖸