Data sheet

3RA2120-4CE27-0AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 16...22 A 230 V AC Spring-type terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product designation design of the product for standard rail or screw mounting product type designation size of the supplied contactor of the supplied contactor of the supplied contactor of the supplied link module size of the circult-breakers of the supplied link module size of the circult-breaker of the supplied dincil breaker of the supplied link module size of the circult-breaker size of	product brand name	SIRIUS		
design of the product product type designation 3RA21 manufacture's article number of the supplied contactor 3R12027-2AP00 3R12027-2AP000 3R12027-2AP00 3R1	product designation	Direct (on-line) starter		
product type designation manufacturer's article number of the supplied contactor of the supplied circuit-breakers of the supplied link module 3RA2921-2AA00 General technical data size of the circuit-breaker size of load feeder so power loss [W] for rated value of the current of the other of the current share typical insulation voltage with degree of pollution 3 at AC rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 specificate of suitability according to ATEX directive 2014/34/EU Substance Prohibitance (Date) Substance Prohibitance (Date) Ambient conditions aminute for the switching contact design of the switching contact design of the switching contact adjustable current response value current of the current design of the switching contact adjustable current response value current of 690 V a RAC-3 rated value of the supplied circuit-breaker structure of the supplied contact of the current design of the switching contact adjustable current response value current of the current design of the switching contact adjustable current response value current of the current dependent overload release operating voltage a rated value at AC-3 rated value maximum e of the supplied circuit-breaker are during voltage a rated value at AC-3 rated value maximum e of the supplied circuit-breaker assurable current of the current design of the switching contact adjustable current response value current of the current e at AC-3 rated value maximum e of the supplied circuit-breaker e of the supplied contact and the current of the current e of the sure of the surent e of the switching contact adjustable current response value current of the current e of the current of the current e of the surent e	design of the product	· · ·		
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■ during transport	during operation	-20 +60 °C		
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adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 16 22 A 690 V 690 V	number of poles for main current circuit	3		
dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	design of the switching contact	electromechanical		
 rated value at AC-3 rated value maximum 690 V 690 V 		16 22 A		
• at AC-3 rated value maximum 690 V	operating voltage			
	rated value	690 V		
• at AC-3e rated value maximum 690 V	 at AC-3 rated value maximum 	690 V		
	 at AC-3e rated value maximum 	690 V		

one wating frequency sets of column	E0 60 Hz		
operating frequency rated value	50 60 Hz		
operational current	00.4		
• at AC-3 at 400 V rated value	22 A		
at AC-3e at 400 V rated value	22 A		
operating power			
• at AC-3			
— at 400 V rated value	11 000 W		
• at AC-3e			
— at 400 V rated value	11 000 kW		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	230 V		
at 50 Hz rated value	230 230 V		
apparent holding power of magnet coil at AC	9.8 VA		
● at 50 Hz	9.8 VA		
inductive power factor with the holding power of the coil	0.25		
• at 50 Hz	0.25		
Auxiliary circuit			
product extension auxiliary switch	Yes		
Protective and monitoring functions			
trip class	CLASS 10		
design of the overload release	thermal (bimetallic)		
response value current of instantaneous short-circuit trip unit	286 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	22 A		
at 600 V rated value	22 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	1.5 hp		
— at 230 V rated value	3 hp		
for 3-phase AC motor	- · · · · ·		
— at 200/208 V rated value	7.5 hp		
— at 220/230 V rated value	7.5 hp		
— at 460/480 V rated value	15 hp		
Short-circuit protection	10 115		
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
·	magnetic		
conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value	150 000 A		
Installation/ mounting/ dimensions	100 000 A		
	vertical		
mounting position	vertical		
fastening method	screw and snap-on mounting onto 35 mm DIN rail		
height	243 mm		
width	45 mm		
depth	107 mm		
required spacing			
• for grounded parts	20		
— forwards	20 mm		
— backwards	0 mm		
— upwards	50 mm		
— at the side	20 mm		
— downwards	10 mm		
• for live parts			
— forwards	20 mm		
— backwards	0 mm		
— upwards	50 mm		
— downwards	10 mm		
— at the side	20 mm		

Connections/ Terminals					
type of electrical connection					
for main current circuit	spring	spring-loaded terminals			
 for auxiliary and control circuit 	spring	spring-loaded terminals			
Safety related data					
B10 value with high demand rate according to SN 31920	1 000	1 000 000			
proportion of dangerous failures					
with high demand rate according to SN 31920	73 %	73 %			
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
 PROFINET IO protocol 	No	No			
PROFIsafe protocol	No	No			
protocol is supported AS-Interface protocol	No	No			
Certificates/ approvals					
General Product Approval		For use in hazard-	Declaration of Conformity		

Confirmation







ous locations





Test Certificates

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping





other Confirmation

Vibration and Shock

Railway

Environmental Confirmations

Environment

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=3RA2120-4CE27-0AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2120-4CE27-0AP0}$

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4CE27-0AP0

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

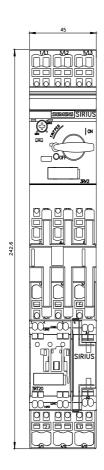
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4CE27-0AP0&lang=en

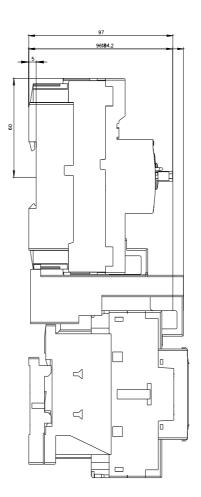
Characteristic: Tripping characteristics, I2t, Let-through current

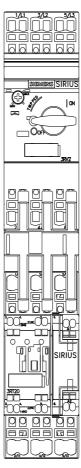
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4CE27-0AP0/char

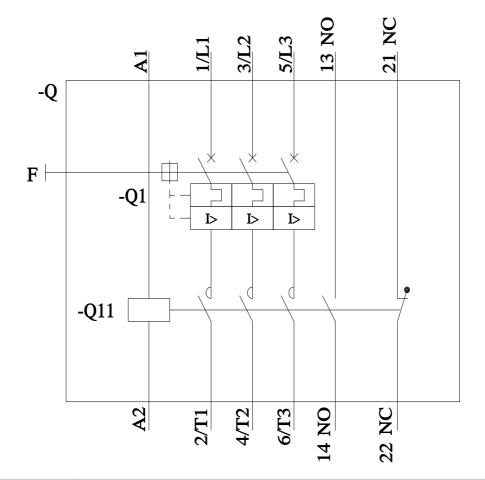
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4CE27-0AP0&objecttype=14&gridview=view1









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