SIEMENS

Data sheet

3RA2120-4EA27-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 27.0...32.0 A 24 V DC screw 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 circuit-breaker of the supplied contactor of the supplied contactor of the supplied link module size of the circuit-breaker of the supplied link module size of the circuit-breaker of the supplied directive the circuit-breaker of the supplied link module size of the circuit-breaker size of the circuit-break	product brand name	SIRIUS			
design of the product product type designation 3RA21 manufacturer's article number of the supplied contactor 3RT2027-1BB40 agry2021-4EA10 of the supplied circuit-breakers agry2021-4EA10 of the supplied ink module 3RA2921-1BA00 Central technical data size of the circuit-breaker size of the circuit-breaker size of plad feeder S0 power loss [W] for rated value of the current out At AC in hot operating state per pole out without load current share typical insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60088-2-27 mechanical service life (operating cycles) of contactor typical type of assignment type of sultability according to ATEX directive 2014/34/EU put 102 ATEX F 001 certificate of sultability according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature outing storage during storage during storage during transport temperature compensation relative humidity during operation during storage out and Compensation relative humidity during operation Main circuit number of poles for main current circuit agustable current response value current of the current-dependent overload release operating voltage rated value out AC-3 rated value maximum for standard all or standard and provided only one of the suith of the suith of the current-dependent overload release operating voltage rated value out at AC-3 rated value maximum design of the switching contact agustable current response value current of the current-dependent overload release out at AC-3 rated value maximum design of the switching contact agustable current response value current of the current-dependent overload release out at AC-3 rated value out at AC-3 rated value maximum design of the switching contact agustable current response value current of the current-dependent overload release out at AC-3 rated value out AC-3 rated value out AC-3 rated value out AC-3 rated value out AC-3 rated value ou	·	Direct (on-line) starter			
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■ during transport	during operation	-20 +60 °C			
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relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 10 95 % 8 690 V	during transport	-50 +80 °C			
Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	temperature compensation	-20 +60 °C			
number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	relative humidity during operation	10 95 %			
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum electromechanical 27 32 A 690 V	Main circuit				
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	number of poles for main current circuit	3			
dependent overload release operating voltage • rated value 690 V • 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 		27 32 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			

anavating funguanay ratedl	E0
operating frequency rated value	50 60 Hz
operational current	20.4
at AC-3 at 400 V rated value	29 A
at AC-3e at 400 V rated value	29 A
operating power	
• at AC-3	
— at 400 V rated value	15 000 W
• at AC-3e	
— at 400 V rated value	15 000 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	5.9 W
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	400 A
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
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
 at 400 V according to IEC 60947-4-1 rated value 	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	193 mm
width	45 mm
depth	107 mm
required spacing	
 for grounded parts 	
— 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
— backwards— upwards	0 mm 50 mm
— upwards	50 mm
— upwards — downwards	50 mm 10 mm
— upwards— downwards— at the side	50 mm 10 mm
upwards downwards at the side Connections/ Terminals	50 mm 10 mm

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

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping





Railway

Dangerous Good

Confirmation

other

Vibration and Shock

Transport Information

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=3RA2120-4EA27-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4EA27-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0BB4

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

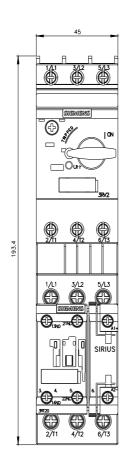
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4EA27-0BB4&lang=en

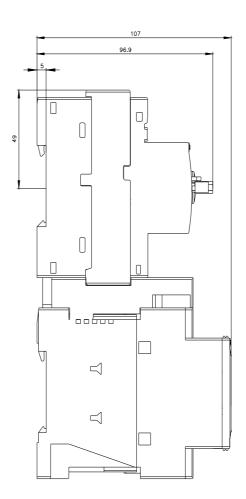
Characteristic: Tripping characteristics, I^2t , Let-through current

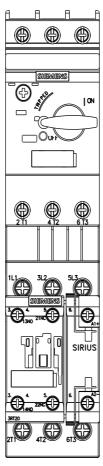
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0BB4/char

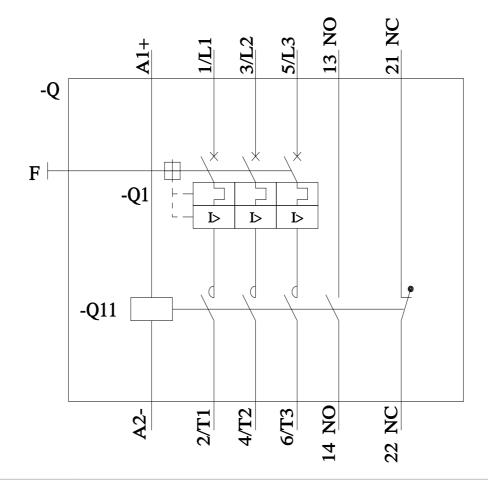
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4EA27-0BB4&objecttype=14&gridview=view1









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