Data sheet

3RA2120-4BE27-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 13...20 A 24 V DC 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 spread type designation spread type designation spread type designation of the supplied contactor of the supplied contactor of the supplied clinic breakers of the supplied link module spread to the spread to	product brand name	SIRIUS			
design of the product product type designation 3RA21 manufacturer's article number of the supplied contactor 3RT2027-2BB40 of the supplied circuit-breakers agry2021-4BA20 of the supplied link module 3RA2921-2AA00 Central technical date size of the circuit-breaker size of the circuit-breaker size of load feeder S0 power loss [W] for rated value of the current out At AC in hot operating state per pole without load current share typical insulation voltage with degree of pollution 3 at AC rated value degree of protection NEMA rating shock resistance according to IEC 60088-2-27 gp assignment type of assignment type of sultability according to ATEX directive 2014/34/EU certificate of sultability according to IEC 81346-2:2019 QSubstance Prohibitance (Date) Ambient conditions ambient temperature during storage during storage during storage during transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 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 for standard rall or screw mounting sRA21 sRA21 sRA21 sRA21 sRA21 sRA21 sRA221-2BB40 sRA221-2BB40 sRA221-2BB40 sRA221-2BA40 sRA221-2AA00	·	Direct (on-line) starter			
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without load current share typical 5.9 W insulation voltage with degree of pollution 3 at AC rated value 68 V degree of protection NEMA rating other shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature during operation -20 +60 °C during storage -50 +80 °C during transport -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation 10 95 % Main circuit adiabate current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release 690 V e at AC-3 rated value 690 V	power loss [W] for rated value of the current				
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certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature	type of assignment	2			
reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport • during transport • -50 +80 °C temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 10/01/2009 10/01/2009 -20 +60 °C -20 +60	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD			
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■ during transport	during operation	-20 +60 °C			
temperature compensation -20 +60 °C 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 -20 +60 °C 13 95 % electromechanical 13 20 A 690 V	during storage	-50 +80 °C			
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 8 8 9 8 9 9 9 9 9 9 9 9	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 electromechanical 13 20 A 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 13 20 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 		13 20 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			

anagating fraguency rated walva	50 60 H -
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	20 A
at AC-3e at 400 V rated value	20 A
operating power	
• at AC-3	
— at 400 V rated value	7 500 W
• at AC-3e	
— at 400 V rated value	7 500 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	260 A
UL/CSA ratings	2007
full-load current (FLA) for 3-phase AC motor	00 A
• at 480 V rated value	20 A
at 600 V rated value	20 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
— at 460/480 V rated value Short-circuit protection	15 hp
	15 hp Yes
Short-circuit protection	
Short-circuit protection product function short circuit protection	Yes
Short-circuit protection product function short circuit protection design of the short-circuit trip	Yes
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	Yes magnetic
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value	Yes magnetic
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	Yes magnetic 150 000 A vertical
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm 10 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards • for live parts — forwards — backwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 0 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — upwards — backwards — upwards — hackwards — upwards — backwards — upwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 20 mm 0 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards • for live parts — forwards — backwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 0 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — upwards — backwards — upwards — hackwards — upwards — backwards — upwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 20 mm 0 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — to parts — forwards — backwards — upwards — downwards — backwards — upwards — backwards — upwards — downwards	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — obackwards — to rewards — downwards — forwards — backwards — backwards — backwards — backwards — backwards — at the side — downwards — the side — downwards — at the side	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — townwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	Yes magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 243 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm

for auxiliary and control circuit	spring-loaded 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





Confirmation

other

Vibration and Shock

Railway

Transport Information

Dangerous Good

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=3RA2120-4BE27-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4BE27-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BE27-0BB4

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

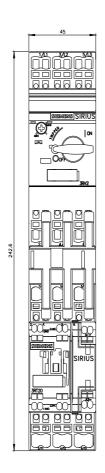
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4BE27-0BB4&lang=en

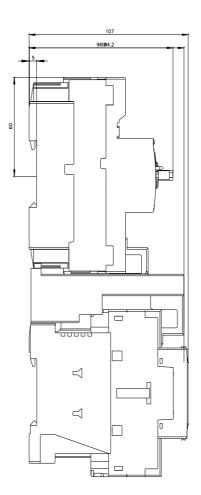
Characteristic: Tripping characteristics, I^2t , Let-through current

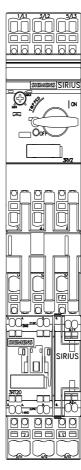
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BE27-0BB4/char

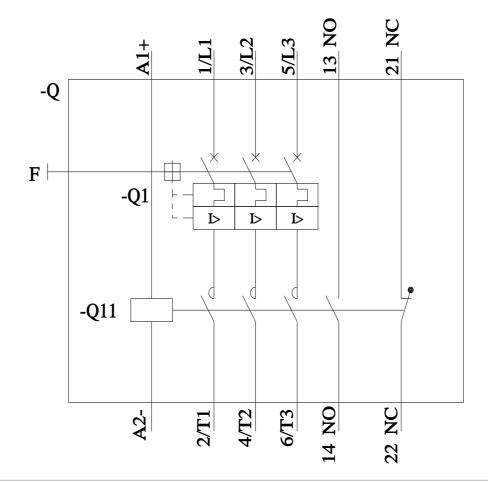
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4BE27-0BB4&objecttype=14&gridview=view1









last modified: 4/17/2023 🖸