Data sheet

3RA2120-4BA27-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 13...20 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 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 directive the screw of the supplied link module size of the circult-breaker size of load feeder so power loss [W] for rated value of the current of at AC in hot operating state per pole without load current share typical surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 def of the screw of the control of the current shock resistance according to ATEX directive 2014/34/EU type of assignment 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 orderence code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during transport -50 +80 °C -80 +80 °	product brand name	SIRIUS		
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of the supplied link module General technical data size of the circuit-breaker size of the circuit-breaker size of load feeder so power loss [W] for rated value of the current 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 rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2g Village of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during transport temperature compensation during storage during transport temperature compensation 20 +60 °C temperature compensation 20 +60 °C temperature compensation 20 +60 °C temperature compensation 21 +50 +80 °C temperature compensation 22 +60 °C temperature compensation 23 +50 °C temperature compensation 24 +50 °C temperature compensation 25 +80 °C temperature compensation 26 +80 °C temperature compensation 27 +60 °C temperature compensation 28 +50 °C temperature compensation 40 +50 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 +50 °C 40 °C 40 °C 40 +50 °C 40 °C	of the supplied circuit-breakers			
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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 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 maximum 690 V	power loss [W] for rated value of the current			
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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	surge voltage resistance rated value	6 kV		
mechanical service life (operating cycles) of contactor typical type of assignment 2 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during storage • during transport -20 +60 °C • during transport -50 +80 °C temperature compensation -20 +60 °C 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 10 000 000 EX II (2) GD EX I	degree of protection NEMA rating	other		
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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 -20 +60 °C 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 10/01/2009 20 10/01/2009 20 10/01/2009 20 10/01/2009 10/01/20	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD		
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport • during transport • -50 +80 °C temperature compensation • -20 +60 °C relative humidity during operation 10 95 % 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 10/01/2009 1	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001		
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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 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 -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 8 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 design of the switching contact 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 13 20 A 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		

anauating fraguency rated walva	E0 60 Hz
operating frequency rated value	50 60 Hz
operational current	00.4
• 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	
full-load current (FLA) for 3-phase AC motor	
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
Short-circuit protection	
Short-circuit protection product function short circuit protection	Yes
	Yes magnetic
product function short circuit protection	
product function short circuit protection design of the short-circuit trip	
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	magnetic
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	magnetic
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	magnetic 150 000 A
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	magnetic 150 000 A vertical
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 20 mm 10 mm 10 mm
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	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 10 mm 10 mm 10 mm
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 — torwards — backwards — torwards — backwards — upwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm
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 — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — downwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm 50 mm 10 mm
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 — downwards — at the side — downwards — at the side	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm 50 mm 10 mm
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 — downwards — torwards — downwards — at the side Connections/ Terminals	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm 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





Confirmation

other





Marine / Shipping





Railway

Vibration and Shock

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=3RA2120-4BA27-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4BA27-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BA27-0BB4

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

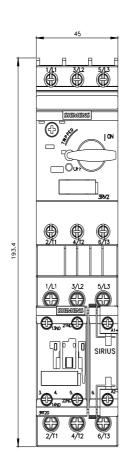
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4BA27-0BB4&lang=en

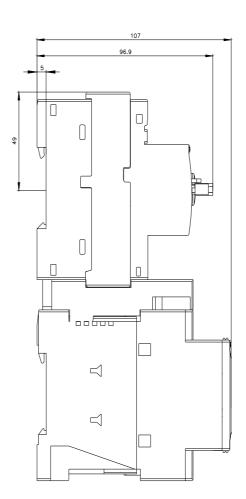
Characteristic: Tripping characteristics, I^2t , Let-through current

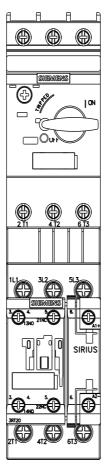
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BA27-0BB4/char

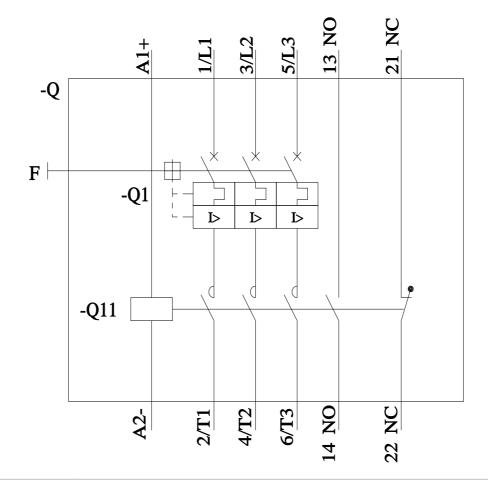
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4BA27-0BB4&objecttype=14&gridview=view1









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