SIEMENS

Data sheet

3RA2110-0FE15-1BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 0.35...0.50 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 (contactor)

product designation Direct (on-line) starter design of the product for standard rail or screw mounting product type designation 3RA21 manufacturer's article number of the supplied contactor 3RT2015-2BB41 of the supplied circuit-breakers 3RV2011-0FA20 of the supplied link module 3RA2911-2AA00 General technical data size of the circuit-breaker S00 size of load feeder S00 power loss [W] for rated value of the current of at AC in hot operating state per pole Without load current share typical 4W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 66 kV degree of protection NEMA rating 5hock resistance according to IEC 60068-2-27 6g /11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 2 type of protection according to ATEX directive 2014/34/EU 5MT 02 ATEX F 001
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type of assignment 2 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD
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
Substance Prohibitance (Date) 10/01/2009
SVHC substance name Blei - 7439-92-1
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
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 0.35 0.5 A
operating voltage
• rated value 690 V
• at AC-3 rated value maximum 690 V

at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
 at AC-3 at 400 V rated value 	0.5 A
at AC-3e at 400 V rated value	0.5 A
operating power	
• at AC-3	
— at 400 V rated value	120 W
• at AC-3e	
— at 400 V rated value	120 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	4 W
Auxiliary circuit	+ vv
	Voc
product extension auxiliary switch	Yes
Protective and monitoring functions	01.400.40
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	6.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.5 A
 at 600 V rated value 	0.5 A
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 C0047 4.4 rated value	450,000 A
• at 400 v according to IEC 60947-4-1 rated value	150 000 A
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	150 000 A
Installation/ mounting/ dimensions	vertical
Installation/ mounting/ dimensions mounting position	vertical
Installation/ mounting/ dimensions mounting position fastening method	vertical screw and snap-on mounting onto 35 mm DIN rail
Installation/ mounting/ dimensions mounting position fastening method height	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm
Installation/ mounting/ dimensions mounting position fastening method height width	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm
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	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm
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 - upwards • for live parts — forwards — backwards — upwards	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm
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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 - at the side — downwards • for live parts — forwards — backwards — backwards — upwards — at the side	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm
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 — at the side — downwards — forwards — backwards — at the side — downwards — backwards — upwards — at the side Connections/ Terminals	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm
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 — at the side Connections/ Terminals type of electrical connection	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm 50 mm 20 mm 0 mm 20 mm
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 — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 20 mm 50 mm 20 mm 50 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 0 mm 50 mm 20 mm 50 mm
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 — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 20 mm 50 mm 20 mm 50 mm
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 — a the side — downwards — backwards — upwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 20 mm 10 mm 50 mm 10 mm 50 mm 10 mm 10 mm
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 — a the side — downwards — backwards — upwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with high demand rate according to SN 31920	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 10 mm 10 mm 10 mm
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 — a the side — downwards — backwards — upwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	vertical screw and snap-on mounting onto 35 mm DIN rail 198 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 20 mm 10 mm 50 mm 10 mm 50 mm 10 mm 10 mm

protocol is supported • PROFINET IO protocol • PROFIsafe protocol No protocol is supported AS-Interface protocol No

Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway

Dangerous Good







Confirmation

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=3RA2110-0FE15-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-0FE15-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FE15-1BB4

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

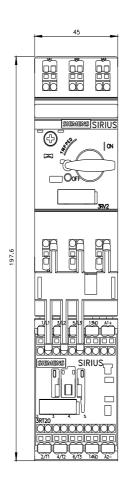
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0FE15-1BB4&lang=en

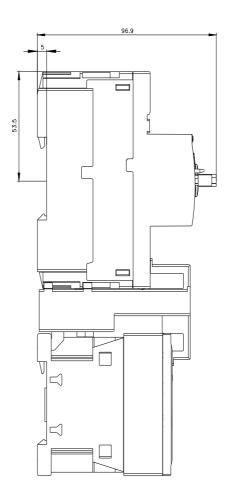
Characteristic: Tripping characteristics, I2t, Let-through current

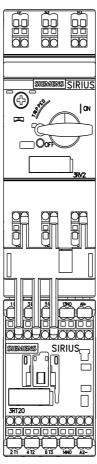
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FE15-1BB4/char

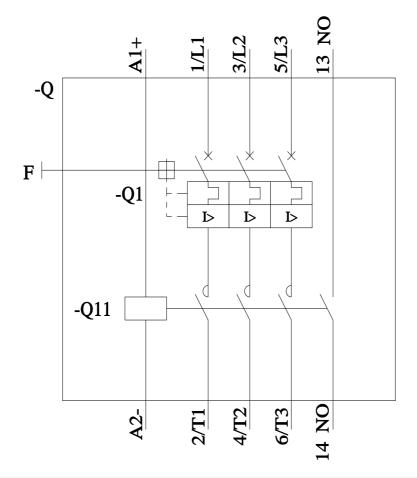
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-0FE15-1BB4&objecttype=14&gridview=view1









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