SIEMENS

Data sheet

3RA2110-1JA16-1AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 7.00...10.0 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NO (contactor)

product designation design of the product product type designation annufacturer's article number of the supplied contactor of the supplied contactor of the supplied contactor of the supplied circuit-breakers of the supplied link module annufacturer's article number of the supplied circuit-breakers of the supplied link module annufacturer's article number of the supplied circuit-breakers size of the circuit-breaker size of load feeder size of load feeder so size of load feeder supplied circuit-breaker size of load feeder supplied link module surge voltage with degree of pollution 3 at AC rated alone surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU Substance Prohibitance (Date) Ambient conditions ambient temperature of uring operation of uring storage of urin	product brand name	SIRIUS
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 ◆ 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 o rated value o at AC-3 rated value maximum -50 +80 °C -20 +60 °C design of current electromechanical 7 10 A 690 V 690 V 690 V 	 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 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 10 95 % electromechanical 7 10 A 690 V	 during storage 	-50 +80 °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 95 % design of the switching contact rate design of the switching contact adjustable current response value current of the current-dependent overload release 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 3 rum design of the switching contact electromechanical 7 10 A 7 10 A 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 3 7 10 A 7 10 A	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 7 10 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 7 10 A 690 V	number of poles for main current circuit	3
current-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 	•	7 10 A
• at AC-3 rated value maximum 690 V	operating voltage	
	rated value	690 V
operating frequency rated value 50 60 Hz	 at AC-3 rated value maximum 	690 V
	operating frequency rated value	50 60 Hz

operational current at AC-3 at 400 V rated value	8.5 A
operating power at AC-3	
at 400 V rated value	4 000 W
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
 at 60 Hz rated value 	230 V
 at 60 Hz rated value 	230 230 V
apparent holding power of magnet coil at AC	4.2 VA
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	7.6 A
yielded mechanical performance [hp]	T.V.N.
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Short-circuit protection	7.5 Hp
	Ves
product function short circuit protection	Yes
design of the short-circuit trip conditional short-circuit current (Iq)	magnetic
conditional Short-circuit current (10)	
,	150,000 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	
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	vertical
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	vertical screw and snap-on mounting onto 35 mm standard mounting rail
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm
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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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 forwards	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm
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 for live parts backwards backwards backwards backwards backwards	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm
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 upwards for live parts forwards backwards upwards upwards upwards upwards	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards for live parts backwards upwards downwards	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at for grounded parts backwards upwards at the side downwards for live parts forwards upwards backwards downwards at the side downwards backwards downwards at the side downwards at the side downwards at the side downwards at the side	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm
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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 — at the side — downwards — torwards — backwards — at the side — downwards — torwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm 20 mm 0 mm 20 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at for grounded parts forwards backwards upwards at the side downwards for live parts forwards upwards upwards at the side downwards at the side connections/ Terminals type of electrical connection for main current circuit	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 20 mm 10 mm 50 mm 20 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at for grounded parts backwards backwards upwards at the side downwards for live parts forwards upwards at the side downwards at the side for auxiliary and control circuit at 400 V according to IEC 60947-4-1 rated value Installation at 400 V according to IEC 60947-4-1 rated value Installation at 400 V according to IEC 60947-4-1 rated value Installation at 400 V according to IEC 60947-4-1 rated value Installation at 400 V according to IEC 60947-4-1 rated value Installation at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to IEC 60947-4-1 rated value Installation in at 400 V according to I	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 10 mm 20 mm 0 mm 20 mm
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 — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit Safety related data	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 20 mm 0 mm screw-type terminals screw-type terminals
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 — at the side — downwards — torwards — backwards — upwards — torwards — torwards — torwards — 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	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 20 mm 10 mm 50 mm 20 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 20 mm
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 — 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 proportion of dangerous failures • with high demand rate according to SN 31920	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 70 mm
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical screw and snap-on mounting onto 35 mm standard mounting rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 10 mm 20 mm 10 mm screw-type terminals screw-type terminals

protocol is supported • PROFINET IO protocol • PROFIsafe 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



EAC





Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate





Confirmation



Marine / Shipping

other Railway









Vibration and Shock

Further information

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=3RA2110-1JA16-1AP0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-1JA16-1AP0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JA16-1AP0

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

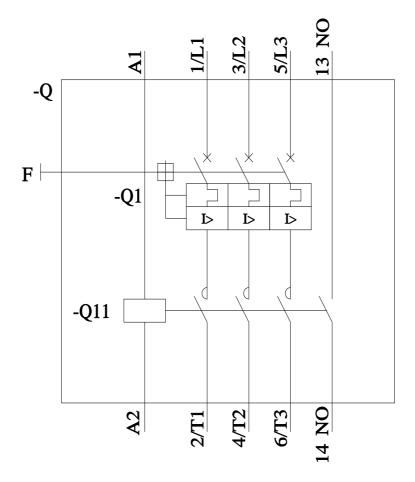
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1JA16-1AP0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JA16-1AP0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1JA16-1AP0&objecttype=14&gridview=view1



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