3RA2110-1FA15-1AK6

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 3.50...5.00 A 110/120 V AC, 50/60 Hz screw terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NO (contactor)

product brain name product designation design of the product manufacturer's article number of the supplied contactor of the supplied contactor of the supplied clinit breakers of the supplied link module strout breaker of the supplied link module of the supplied link module strout breaker of the supplied link module strout breaker strout breaker strout breaker strout locknical data strout breaker strout of load feeder product extension auxiliary switch product extension auxiliary switch surge of pollution surge voltage resistance rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 fig. 11 ms mechanical service life (operating cycles) of contactor typical type of assignment substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature during operation during storage during storage during transport 5.50 +80 °C during transport selection and current circuit design of the switching contact design of the switching contact design of the switching contact operating ovoltage rated value erated value operating requency rated value operating requency rated value operating requency rated value 1 500 W 1 500 W 2 1 500 W 3 000 W 5 1 500 W		
design of the product manufacturer's article number • of the supplied circuit-breakers • of the supplied link module SRA1921-1DA00 General technical data size of the circuit-breaker size of load feeder S00 size of load feeder S00 size of load feeder S00 size of load feeder source of pollution surge voltage existance rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during storage • during transport Adesign of the switching contact design of the switching contact dependent overload release operating oveltage • rated value • at AC-3 rated value • at AC-3 rated value • at AC-3 rated value • at 4C-3 rated value • at 500 V rated value • at 600 V rated value	product brand name	SIRIUS
manufacturer's article number • of the supplied contactor • of the supplied contactor • of the supplied link module SRA1921-1DA00 General technical data size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker Size of load feeder Soo product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 kt/ shock resistance according to IEC 60068-2-27 Bg /1 1 ms mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during storage • during transport Abaic Counting transport 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 operating frequency rated value • at AC-3 rated value • at AC-3 rated value • at 400 V rated value • at 500 V rated value	product designation	non-fused load feeders 3RA2
of the supplied circuit-breakers of the supplied circuit-breakers of the supplied link module General technical data size of the circuit-breaker size of the circuit-breaker size of load feeder spoo product extension auxillary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during transport 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 * at 4C-3 rated value * at 4C-3 rated value * at 4G0 V rated value * at 6G0 V	design of the product	direct starter
of the supplied circuit-breakers of the supplied link module 3RA1921-1DA00 Ceneral technical data size of the circuit-breaker size of load feeder So0 size of load feeder So0 product extension auxiliary switch resimination voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature ouring operation ouring storage during transport 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	manufacturer's article number	
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size of the circuit-breaker S00 size of load feeder S00 product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 68V shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 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 Main circuit number of poles for main current circuit 3 design of the switching contact dependent overload release operating voltage • at AC-3 rated value maximum 690 V operating power at AC-3 • at 400 V rated value 50 60 Hz operating power at AC-3 • at 400 V rated value 2 200 W • at 600 V rated value 2 200 W • at 600 V rated value 3 3000 W Control circuit/ Control control supply voltage at AC	 of the supplied circuit-breakers 	3RV2011-1FA10
size of the circuit-breaker S00 size of load feeder S00 product extension auxiliarry switch Yes insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C during storage -50 +80 °C 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 • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current AC-3 • at 400 V rated value 1500 W • at 690 V rated value 2 200 W • at 690 V rated value 2 200 W • at 690 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	 of the supplied link module 	3RA1921-1DA00
size of load feeder S00 product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 s surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 1 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 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 • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power at AC-3 • at 400 V rated value 1500 W • at 600 V rated value 2 200 W • at 600 V rated value 2 200 W • at 600 V rated value 3 3000 W Control circuit/ Control control supply voltage at AC	General technical data	
product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6 g / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation • during storage • during storage • during transport 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 • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 • at 400 V rated value • at 600 V rated value	size of the circuit-breaker	S00
insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 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 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 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating over at AC-3 at 400 V rated value 3.6 A operating power at AC-3 • at 400 V rated value 1 500 W • at 690 V rated value 2 200 W • at 690 V rated value 2 200 W • at 690 V rated value 3 3000 W Control circuit/ Control control supply voltage at AC	size of load feeder	S00
degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -50 +80 °C 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 • rated value • at AC-3 rated value maximum operating frequency rated value at AC-3 at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value	product extension auxiliary switch	Yes
surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • 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 operating frequency rated value operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	insulation voltage with degree of pollution 3 at AC rated value	690 V
shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 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 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 690 V operating frequency rated value 50 60 Hz operating power at AC-3 at 400 V rated value 3.6 A operating power at AC-3 at 400 V rated value 2 200 W at 500 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	degree of pollution	3
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type of assignment Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C -50 +8	shock resistance according to IEC 60068-2-27	6g / 11 ms
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -50 +80 °C 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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value	mechanical service life (operating cycles) of contactor typical	30 000 000
ambient temperature • during operation • during storage • during transport -50 +80 °C • 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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value Operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	type of assignment	1
ambient temperature • during operation • during storage • during transport -50 +80 °C • 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 operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value 0 so 60 Hz 0 control circuit/ Control control supply voltage at AC	Substance Prohibitance (Date)	10/01/2009
 during operation during storage during transport 50 +80 °C during transport -50 +80 °C 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 e rated value eat AC-3 rated value maximum operating frequency rated value operating prequency rated value operating power at AC-3 at 400 V rated value at 500 W at 500 V rated value at 690 V rated value<td>Ambient conditions</td><td></td>	Ambient conditions	
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oduring transport	during operation	-20 +60 °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 operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 2 200 W • at 690 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	during storage	-50 +80 °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 operating frequency rated value operating prower at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V Control circuit/ Control control supply voltage at AC	 during transport 	-50 +80 °C
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 operating frequency rated value operating requency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value 1 500 W • at 500 V rated value 2 200 W • at 690 V rated value 3 300 W Control circuit/ Control control supply voltage at AC	Main circuit	
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dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V • at 690 V control circuit/ Control control supply voltage at AC	design of the switching contact	electromechanical
 rated value 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 a6 A operating power at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value		3.5 5 A
 at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 W at 500 V rated value at 690 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	operating voltage	
operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value control circuit/ Control control supply voltage at AC	rated value	690 V
operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value oat 690 V rated value Control circuit/ Control control supply voltage at AC	at AC-3 rated value maximum	690 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value Control circuit/ Control control supply voltage at AC	operating frequency rated value	50 60 Hz
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value Control circuit/ Control control supply voltage at AC	operational current at AC-3 at 400 V rated value	3.6 A
at 500 V rated value at 690 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	operating power at AC-3	
at 690 V rated value 3 000 W Control circuit/ Control control supply voltage at AC	• at 400 V rated value	1 500 W
Control circuit/ Control control supply voltage at AC	• at 500 V rated value	2 200 W
control supply voltage at AC	• at 690 V rated value	3 000 W
	Control circuit/ Control	
4004	control supply voltage at AC	
at 50 Hz rated value 110 V	• at 50 Hz rated value	110 V

at 60 Hz rated value	120 V	
apparent holding power of magnet coil at AC	4.2 VA	
Protective and monitoring functions		
trip class	CLASS 10	
design of the overload release	thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit	65 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	4.8 A	
at 600 V rated value	4.55 A	
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	0.17 hp	
— at 230 V rated value	0.5 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	1 hp	
— at 220/230 V rated value	1 hp	
— at 460/480 V rated value	3 hp	
— at 575/600 V rated value	3 hp	
Short-circuit protection		
product function short circuit protection	Yes	
design of the short-circuit trip	magnetic	
conditional short-circuit current (Iq)	4.000 A	
at 690 V according to IEC 60947-4-1 rated value	4 000 A	
at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value	153 000 A	
at 500 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	100 000 A	
	vertical	
mounting position	7.75	
fastening method height	screw and snap-on mounting onto 35 mm DIN rail 167.2 mm	
width	45 mm	
depth	97.1 mm	
required spacing		
• for grounded parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	20 mm	
— at the side	9 mm	
— downwards	10 mm	
 for live parts 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	20 mm	
— downwards	10 mm	
— at the side	9 mm	
Connections/ Terminals		
type of electrical connection for main current circuit	screw-type terminals	
type of connectable conductor cross-sections for main contacts stranded	0.5 4 mm², 2x (0.75 2.5 mm²)	
connectable conductor cross-section for main contacts finely stranded with core end processing	0.5 2.5 mm ²	
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 %	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Certificates/ approvals		
General Product Approval	For use in hazard- ous locations Declaration of Conformity	











Test Certificates

Marine / Shipping

Special Test Certific-

Type Test Certificates/Test Report









Marine / Shipping

other Railway







Confirmation

Vibration and Shock

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=3RA2110-1FA15-1AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-1FA15-1AK6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AK

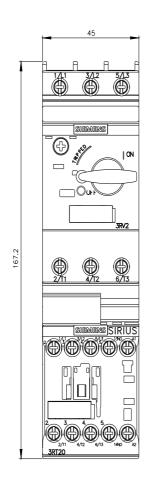
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

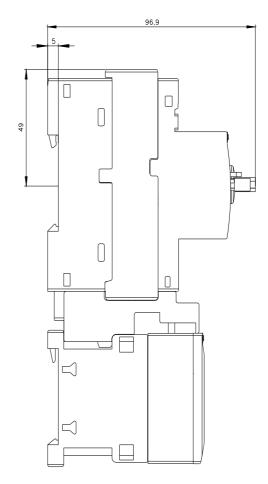
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1FA15-1AK6&lang=en

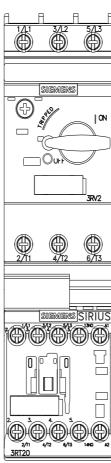
Characteristic: Tripping characteristics, I2t, Let-through current

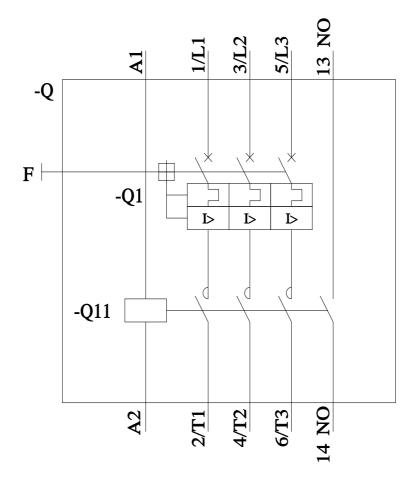
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AK6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1FA15-1AK6&objecttype=14&gridview=view1









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