3RA2110-1BA15-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 1.40...2.00 A 230 V AC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, lq = 150 kA 1 NO (contactor)

product designation design of the product for standard rail or screw mounting product type designation sarcticer's article number of the supplied contactor of the supplied contactor of the supplied link module sarcticer's article number size of the circuit-breaker size of the circuit-brea	product brand name	SIRIUS
design of the product product type designation 3RA21 manufacturer's article number of the supplied contactor of the supplied circuit-breakers of the supplied incruit-breakers of the supplied incruit-breakers of the supplied incruit-breakers of the supplied incruit-breakers of the supplied ink module Size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker size of load feeder Size of load feeder supplied ink not operating state per pole owithout load current share typical supplied with degree of pollution 3 at AC rated value of 8V Insulation voltage with degree of pollution 3 at AC rated value Surge voltage resistance rated value of 8V degree of protection NEMA rating shock resistance according to IEC 60088-2-27 gg /11 ms mechanical service life (operating cycles) of contactor typical spherical service life (operating cycles) of contactor typical substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Os87 kg Ambient temperature oduring peration oduring storage oduring transport oduring transport oduring transport oduring transport oduring transport oduring transport substance compensation relative humidity during operation oduring transport oduring transport oduring transport substance compensation relative humidity during operation oduring transport oduring tr	· .	Direct (on-line) starter
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of the supplied link module General technical data size of the circuit-breaker size of toad feeder soo power loss [W] for rated value of the current	of the supplied circuit-breakers	3RV2011-1BA10
size of the circuit-breaker S00 size of load feeder S00 power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical 4.2 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 697 Imms 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 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -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 690 V • at AC-3 rated value maximum 690 V		3RA1921-1DA00
size of load feeder power loss [W] for rated value of the current at AC in hot operating state per pole without load current share typical 4.2 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV degree of protection NEMA rating other shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature during operation -20 +60 °C during storage during transport -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 690 V	General technical data	
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at AC in hot operating state per pole without load current share typical without load current share typical surge voltage resistance rated value 680 V surge voltage resistance rated value 68k V degree of protection NEMA rating other shock resistance according to IEC 60068-2-27 feg /11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature during operation during storage during storage during transport -50 +80 °C temperature compensation relative humidity during operation along of the switching contact adjustable current response value current of the current-dependent overload release rated value at AC-3 rated value maximum 690 V	size of load feeder	S00
without load current share typical insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature during operation during storage during storage during transport -50 +80 °C temperature compensation relative humidity during operation Main circuit number of poles for main current circuit adissign of the switching contact adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value 890 V 690 V ** ** ** ** ** ** ** ** **	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value surge voltage 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 30 000 000 type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature during operation during storage during transport -50 +80 °C -50 +80 °C -50 +80 °C -50 +60 °C temperature compensation -20 +60 °C relative humidity during operation -20 +60 °C temperature transport -50 +80 °C -50 +80 °C -50 +80 °C -50 +80 °C -50 +60	 at AC in hot operating state per pole 	2.6 W
surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0,587 kg Ambient conditions ambient temperature • during operation • during storage • 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 690 V	 without load current share typical 	4.2 W
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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 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.587 kg 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 operating voltage • rated value • at AC-3 rated value maximum 690 V	surge voltage resistance rated value	6 kV
mechanical service life (operating cycles) of contactor typical type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature • during operation • during storage • during storage • 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 690 V	degree of protection NEMA rating	other
type of assignment 2 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature	shock resistance according to IEC 60068-2-27	6g / 11 ms
reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature • during operation • during storage • during transport • during transport temperature compensation 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 690 V	mechanical service life (operating cycles) of contactor typical	30 000 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature • during operation • during storage • 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 1.4 2 A	type of assignment	2
SVHC substance name Lead - 7439-92-1 Weight 0.587 kg Ambient conditions ambient temperature • during operation • during storage • 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 Lead - 7439-92-1 0.587 kg -20 +60 °C -20 +60 °C -20 +60 °C -30 +60 °C -40 °C	reference code according to IEC 81346-2:2019	Q
Weight 0.587 kg 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 operating voltage • rated value • rated value • at AC-3 rated value maximum o 20 +60 °C -20 +60 °C -20 +80 °C -20 +80 °C -20 +80 °C -20 +60 °C -21 +60 °C -20 +60 °C -2	Substance Prohibitance (Date)	10/01/2009
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 -20 +60 °C -50 +80 °C -10 +60 °C	SVHC substance name	Lead - 7439-92-1
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 during operation during storage during transport 50 +80 °C temperature compensation 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 690 V 	Ambient conditions	
 during storage 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 electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V 	ambient temperature	
■ 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 1.4 95 % electromechanical 1.4 2 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 8 8 8 8 8 8 8 8 8 8	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 1.4 2 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 1.4 2 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 1.4 2 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 		1.4 2 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

operating frequency rated value	50 60 Hz
operating frequency rated value	00 00 TIZ
at AC-3 at 400 V rated value	2 A
at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	750 W
— at 400 V rated value	750 W
• at AC-3e	750.14
— at 400 V rated value	750 W
Control circuit/ Control	40
type of voltage of the control supply voltage	_ AC
control supply voltage at AC	
at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
apparent holding power of magnet coil at AC	4.2 VA
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
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	26 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2 A
at 600 V rated value	2 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.16 hp
• for 3-phase AC motor	
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 hp
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 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	100 000 70
	vertical
mounting position	
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	167 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts	00
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm

— at the side	20 mm	
Connections/ Terminals		
type of electrical connection		
• for main current circuit	screw-type terminals	
 for auxiliary and control circuit 	screw-type terminals	
Safety related data		
product function suitable for safety function	Yes	
Electrical Safety		
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	
Approvals Certificates		
Ganaral Product Approval		For use in hazard-



General Product Approval



Confirmation







ous locations

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping





Confirmation

other

Special Test Certificate

Railway

Environmental Confirmations

Environment

Further information

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=3RA2110-1BA15-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1BA15-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP0

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

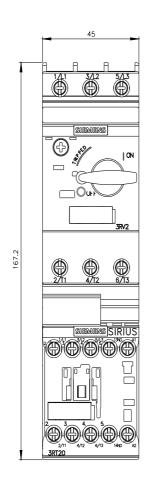
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1BA15-1AP0&lang=en

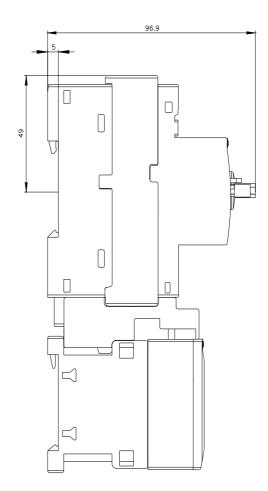
Characteristic: Tripping characteristics, I²t, Let-through current

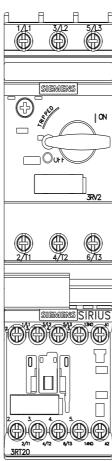
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP0/char

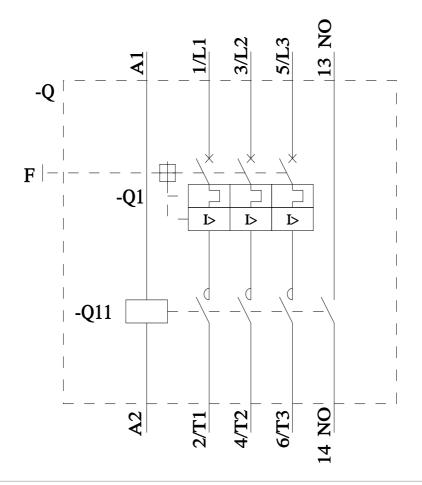
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1BA15-1AP0&objecttype=14&gridview=view1









last modified: 6/4/2024 🖸