3RA2110-1HA15-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 5.50...8.00 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, 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 SRA21 arX21 arX21 of the supplied contactor SRX2015-1APO1 of the supplied circuit-breakers SRX2011-1HA10 arX2015-1APO1 of the supplied link module SRA1921-1DA00 General technical data size of the circuit-breaker S00 size of load feeder S00 size of load feeder S00 ewithout load current share typical 4.2 W insulation voltage with degree of pollution 3 at AC rated value 69 kV 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 type of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7438-92-1 Weight 0.6 kg Ambient conditions ambient temperature during storage of during transport 500 +80 °C during storage of during transport 100 +80 °C	product brand name	SIRIUS
design of the product product type designation arountacturer's article number of the supplied contactor of the supplied contactor of the supplied contactor of the supplied contactor of the supplied link module agravity and the circuit-breakers of the supplied link module Concral technical data size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of load feeder so ower loss [W] for rated value of the current of at AC in hot operating state per pole owithout bad current share typical sultation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value feere of protection NEMA rating shock resistance according to IEC 80068-2.27 g/l 11 ms mechanical service life (operating cycles) of contactor typical type of assignment reference code according to IEC 81348-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Substance Prohibitance (Date) 10/01/2009 Substance Prohibitance (Date) 0.6 kg Ambient temperature of uning operation of uning operation of uning operation of uning operation of uning transport of uning operation of uning transport of uning transport of the switching contact operating voltage of a state value maximum of 800 V state of the size of the circuit-breakers of the switching contact operating voltage of a rated value of a AC-3 rated value maximum of the conditions of the switching contact of the circuit-breakers of the switching contact of the circuit-breakers of the switching contact of the circuit-breaker of the switching contact of the circuit-breaker of the circuit-breaker of the switching contact of the circuit-breaker	· .	Direct (on-line) starter
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oneral technical data size of the circuit-breaker size of load feeder at AC in hot operating state per pole without load current sharet typical at general protection NEMA rating shock resistance according to IEC 80368-2-27 mechanical service life (operating cycles) of contactor typical substance Prohibitance (Date) SylhC substance name belight whigh temperature during storage during storage during storage during storage during storage during transport temperature compensation relative humidity during operation service life (sor main current circuit design of the switching contact dependent overload release operating voltage e- rated value 800 800 3.3 W 4.2 W insulation voltage with degree of pollution 3 at AC rated value 680 V 800 V 800 V 800 V 800 V 801 Im ms 691 Il ms 800 000 800 000 800 000 900 1001/2009 SVHC substance according to IEC 81346-2:2019 Q SVHC substance Prohibitance (Date) 1001/2009 SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient temperature during operation - 20 +60 °C - during storage - during torage - 50 +80 °C - during transport - 50 +80 °C - during transport - 20 +60 °C - during transport - 20 +60 °C - during transport - 50 +80 °C - during transport - 60 °C - 60 °	of the supplied contactor	3RT2015-1AP01
Size of the circuit-breaker 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 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 shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 germechanical service life (operating cycles) of contactor typical type of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient temperature • during operation • during storage • during storage • during transport temperature compensation -20 +60 °C temperature compensation 2-20 +60 °C temperature compensation 10 95 % Main circuit number of poles for main current circuit 3 design of the switching contact dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	of the supplied circuit-breakers	3RV2011-1HA10
size of the circuit-breaker 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 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 substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight • during operation • during peration • during storage • during storage • during storage • during storage • during transport temperature compensation relative humidity during operation Main circuit number of poles for main current circuit design of the switching contact e rated value • at AC-3 rated value maximum 500 500 500 500 500 500 500	of the supplied link module	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 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 other shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature • during storage • during storage • during storage • 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	General technical data	
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at AC in hot operating state per pole without load current share typical insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 kV degree of protection NEMA rating shock resistance according to IEC 60068-2-77 6g / 11 ms mechanical service life (operating cycles) of contactor typical stype of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance and Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature during operation during storage during transport -50 +80 °C -6 during transport -50 +80 °C -6 during transport -50 +80 °C -70 temperature compensation -70 the switching contact -71 substable current circuit adjustable current response value current of the current-dependent overload release -72 over 40 value -73 at AC-3 rated value maximum -74 over 40 value -74 over 40 value maximum -75 over 40 value -77 over 40 value -77 over 40 value maximum -77 over 40 value -77 over 40 value value maximum -78 over 40 value -78 over 40 val	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 other shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment reference code according to IEC 81346-2:2019 Q SUHC substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature during operation during storage during storage during transport -50 +80 °C -50 +80 °C -50 +80 °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 art AC-3 rated value at AC-3 rated value maximum 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 type of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature during operation during storage during storage during transport temperature compensation -20 +60 °C temperature response value current of the current-dependent overload release operating voltage rated value of 800 V et at AC-3 rated value maximum 690 V	 at AC in hot operating state per pole 	3.3 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 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -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	 without load current share typical 	4.2 W
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 30 000 000 type of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0,6 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 3 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	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 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.6 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 690 V • at AC-3 rated value maximum 690 V	surge voltage resistance rated value	6 kV
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reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.6 kg Ambient conditions ambient temperature • during operation • during storage • during storage • during transport temperature compensation -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 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 0.6 kg Ambient conditions ambient temperature • during operation • during storage • during transport 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 10.001/2009	type of assignment	1
SVHC substance name Lead - 7439-92-1	reference code according to IEC 81346-2:2019	Q
Weight 0.6 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	Substance Prohibitance (Date)	10/01/2009
Ambient conditions ambient temperature • during operation • during storage • during transport -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 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 °	SVHC substance name	Lead - 7439-92-1
ambient temperature	Weight	0.6 kg
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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 10 95 % 8 electromechanical 5.5 8 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 % 3 4 690 V	during transport	-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 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 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 5.5 8 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 5.5 8 A 690 V	number of poles for main current circuit	3
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 		5.5 8 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 reted value	EU 60 H-4
operating frequency rated value	50 60 Hz
operational current	7 A
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	7 A
at AC-3e at 400 V rated value	I N
operating power • at AC-3	
	3 000 W
— at 400 V rated value ■ at AC-3e	3 000 W
— at 400 V rated value	3 000 W
Control circuit/ Control	3 000 W
type of voltage of the control supply voltage	AC
control supply voltage at AC	70
• 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	104 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	6.1 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	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	
mounting position	vertical
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 	
— 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		
General Product Approval		For use in hazard-

General Product Approval



Confirmation







ous locations

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certific-









Marine / Shipping



Confirmation

other

Special Test Certificate

Railway

Environmental Confirmations

Environment

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=3RA2110-1HA15-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1HA15-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1HA15-1AP0

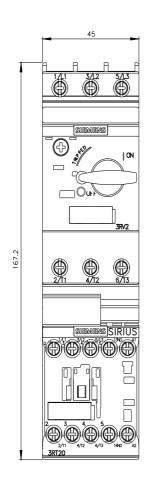
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

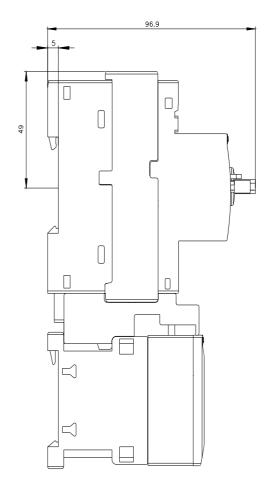
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1HA15-1AP0\&lang=en}}$

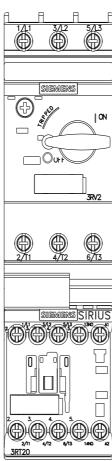
Characteristic: Tripping characteristics, I2t, Let-through current

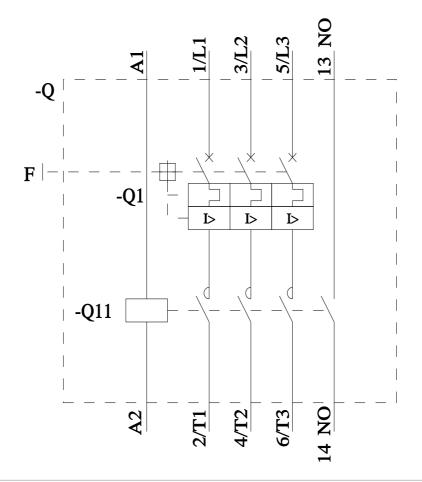
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1HA15-1AP0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1HA15-1AP0&objecttype=14&gridview=view1









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