3RA2110-4AA18-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 10...16 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 for standard rail or screw mounting product type designation gradient special for standard rail or screw mounting product type designation gradient special for standard rail or screw mounting gradient gra	product brand name	SIRIUS
design of the product for standard rail or screw mounting product type designation 3RA21	· .	Direct (on-line) starter
product type designation manufacturer's article number of the supplied circuit-breakers of the supplied circuit-breakers of the supplied link module 3RA1921-1DA00 General technical data size of the circuit-breaker size of the supplied circuit-breaker size of the circuit-breaker size of the supplied		
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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 share typical surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 80368-2-27 mechanical service life (operating cycles) of contactor typical substance Prohibitance (Date) SyHC substance name Beld Transport ambient temperature during storage during storage during storage during transport emperature compensation relative humidity during operation sulfus relative humidity during operation sulfus current response value current of the current-dependent overload release operating voltage a rated value en at AC-3 rated value maximum solo 000 V surge voltage resistance rated value 6 kV degree of protection NEMA rating 6 kV degree of protection NEMA rating 6 g/ 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 10 000 000 10 1 1 1 1 1 1 1	of the supplied contactor	3RT2018-1AP01
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 general according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight no.604 kg Ambient conditions ambient temperature • during operation • during storage • during storage • during transport temperature compensation cut with the substance compensation perative humidity during operation 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	3RV2011-4AA10
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 fine protection Service life (operating cycles) of contactor typical substance Prohibitance (Date) SUBstance Prohibitance (Date) SUBstance Prohibitance (Date) SUBstance Prohibitance (Date) Weight 0.604 kg Ambient conditions ambient temperature • during operation • during storage • during storage • during transport temperature compensation relative humidity during operation 1095 % 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 • at AC-3 rated value • at AC-3 rated value maximum SOU SOU SOU SOU SOU SOU SOU SO	of the supplied link module	3RA1921-1DA00
size of load feeder S00 power loss [W] for rated value of the current • at AC in hot operating state per pole 4.1 W • without load current share typical 5.7 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 sistance 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 0.604 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	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 type of assignment 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.604 kg Ambient conditions ambient temperature during operation during storage during transport -50 +80 °C -6 during transport -50 +80 °C -6 temperature compensation 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 - 1 act AC-3 rated value maximum - 1 act AC-3 rated value maximum - 2 act AC-3 rated value maximum - 2 act AC-3 rated value maximum - 3 control value - 4 during voltage - 5 act AC-3 rated value maximum - 4 control value - 5 control value - 6 control value - 7 control 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 feeting of assignment reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.604 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 1095 % 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	power loss [W] for rated value of the current	
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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 0.604 kg Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -20 +60 °C relative humidity during operation -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 	5.7 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 1 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.604 kg Ambient conditions ambient temperature	surge voltage resistance rated value	6 kV
mechanical service life (operating cycles) of contactor typical type of assignment reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.604 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 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	degree of protection NEMA rating	other
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Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.604 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 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 16 A	type of assignment	1
SVHC substance name Lead - 7439-92-1 Weight 0.604 kg 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 Lead - 7439-92-1 0.604 kg -20 +60 °C	reference code according to IEC 81346-2:2019	Q
Weight 0.604 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 °C -10 +60 °	SVHC substance name	Lead - 7439-92-1
ambient temperature	Weight	0.604 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 10 16 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 10 95 %	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 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 10 16 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 10 16 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 		10 16 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

anausting funguianay anti-dividua	E0 60 Hz
operating frequency rated value	50 60 Hz
operational current	16 A
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	16 A
at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	7.500.14
— at 400 V rated value	7 500 W
• at AC-3e	7.500.14
— at 400 V rated value Control circuit/ Control	7 500 W
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
apparent holding power of magnet coil at AC	5.7 VA
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 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	0.20
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	208 A
UL/CSA ratings	2007
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	14 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
for 3-phase AC motor	2 np
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
Short-circuit protection	14 np
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
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— 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-	



Confirmation







ous locations

Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping





Confirmation

other

Special Test Certific-<u>ate</u>

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=3RA2110-4AA18-1AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-4AA18-1AP0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AA18-1AP0

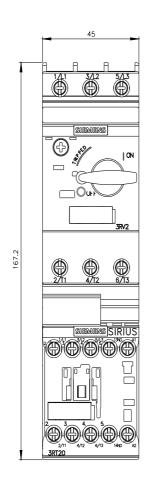
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

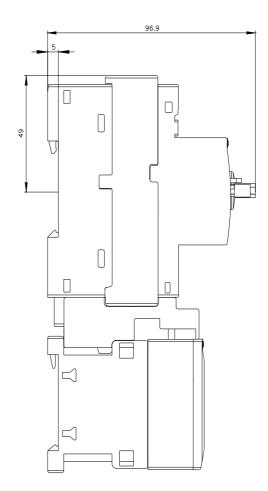
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-4AA18-1AP0&lang=en

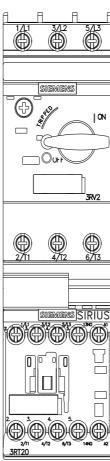
Characteristic: Tripping characteristics, I2t, Let-through current

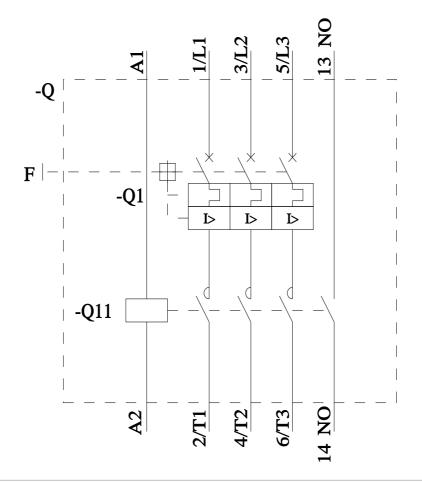
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AA18-1AP0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-4AA18-1AP0&objecttype=14&gridview=view1









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