3RA2210-1BA15-2BB4

Data sheet



Load feeder fuseless, Reversing duty 400 V AC, Size S00 1.40...2.00 A 24 V DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NC (contactor)

product ye designation design of the product for standard rail or screw mounting product ye designation size of the supplied contactor of the supplied contactor of the supplied contactor of the supplied fine through through the supplied fine through the supplied fine through th	product brand name	SIRIUS
product type designation manufacturer's article number of the supplied contactor 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 supplied circuit-breaker size of the circuit-breaker size of the supplied circuit-breaker size of the supplied circuit-breaker size of the supplied circuit-breaker size of the circuit-dreamen size of the circuit-breaker size of the supplied circuit-size size of the supplied circuit-breaker size of the supplied circuit-breaker size of the supplied circuit-size size of the supplied c	product designation	Reversing starter
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of the supplied circuit-breakers of the supplied link module SRY2011-1BA10 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 Owithout load current share typical without load current share typical surge voltage resistance rated value surge voltage resistance 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 stype of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU preference code according to BEC 81346-2:2019 Qubstance Prohibitance (Dato) Ambient conditions ambient temperature during operation during storage during transport temperature compensation relative humidity during operation design of the switching contact dependent overload release operating voltage rated value at AC-3 rated value maximum en 4 AC-3 rated value maximum en 4 AC-3 rated value maximum en 4 AC-3 rated value maximum en 690 V	product type designation	3RA22
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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 6 kV degree of protection NEMA rating shock resistance according to IEC 60068-2-27 6 g/ 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU Substance Prohibitance (Date) 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 dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	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 4W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V 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 2 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -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 electromechanical adjustable current response value current of the current-dependent overload release • rated value 690 V • at AC-3 rated value maximum 690 V	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 2.6 W • without load current share typical 4 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 6g/11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 2 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Amblent 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 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	General technical data	
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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 feg / 11 ms mechanical service life (operating cycles) of contactor typical which according to ATEX directive 2014/34/EU type of assignment type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU pm of protection according to ATEX directive 2014/34/EU pm of protection according to IEC 81346-2:2019 Substance Prohibitance (Date) during to IEC 81346-2:2019 which is a substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during storage during transport -20 +60 °C -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation 10 95 % Main 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 4 W With a survival and survival according to the switching contact electromechanical 1.4 2 A	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 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature during operation during storage during transport -50 +80 °C	 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 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU port 02 ATEX F 001 reference code according to IEC 81346-2:2019 Quststance Prohibitance (Date) 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 electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value e at AC-3 rated value maximum enter contact electromechanical electromechanical electromechanical	without load current share typical	4 W
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 2 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to IEC 81346-2:2019 Certificate of suitability according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport 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 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum other conditions 10 95 V	insulation voltage with degree of pollution 3 at AC rated value	690 V
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mechanical service life (operating cycles) of contactor typical type of assignment 2 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation • during storage • during storage • during transport -50 +80 °C • during transport -50 +80 °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 • at AC-3 rated value maximum 690 V	degree of protection NEMA rating	other
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certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature	type of assignment	2
reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) 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 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 10/01/2009 10/01/2009 20 +60 °C -20 +60 °C -50 +80 °C -50 +	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
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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 °	reference code according to IEC 81346-2:2019	Q
ambient temperature • during operation -20 +60 °C • 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 -50 +80 °C -50 +80 °C -20 +60 °C -	Substance Prohibitance (Date)	10/01/2009
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■ 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 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 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 4 690 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 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	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 • 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

	50 COLL-
operating frequency rated value	50 60 Hz
operational current	
 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	
— at 400 V rated value	750 W
• at AC-3e	
— at 400 V rated value	750 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	4 W
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 480 V rated value at 600 V rated value	2 A
	ZA
yielded mechanical performance [hp] • for single-phase AC motor	
•	0.40 hp
— at 230 V rated value	0.16 hp
• for 3-phase AC motor	0.51
— 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	
mounting position	vertical
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	170 mm
width	90 mm
depth	97 mm
required spacing	
for grounded parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
~~·····	
— at the side	
— at the side	10 mm
Connections/ Terminals	
Connections/ Terminals type of electrical connection	10 mm
Connections/ Terminals	

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 %
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
Certificates/ approvals	

General Product Approval

For use in hazardous locations

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other Railway Dangerous Good







Confirmation

Vibration and Shock

Transport Information

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=3RA2210-1BA15-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-1BA15-2BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1BA15-2BB4

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

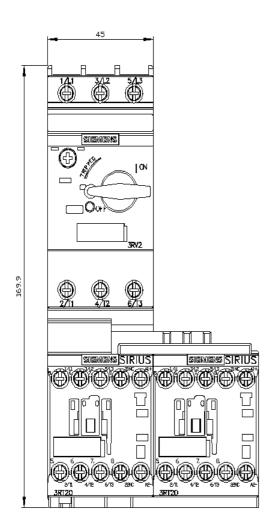
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1BA15-2BB4\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1BA15-2BB4\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1BA15-2BB4\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1BA15-2BB4&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx} \\ \underline{\text{http://www.automation.siemens.com$

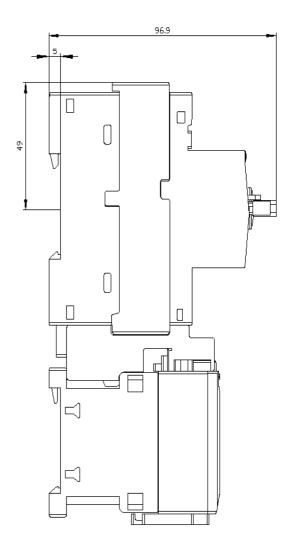
Characteristic: Tripping characteristics, I²t, Let-through current

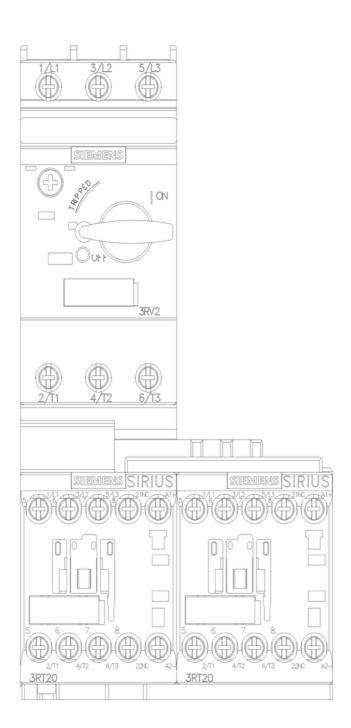
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1BA15-2BB4/char

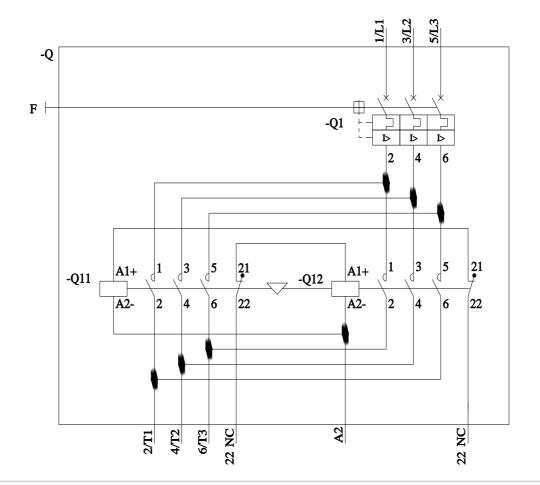
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1BA15-2BB4&objecttype=14&gridview=view1









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