SIEMENS

Data sheet

3RA2215-1FA15-2BB4



Fuseless motor starter Reversing operation 600VAC Size S00 3.5-5A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 1 1NO+1NC (MSP) 1NC (per contactor)

product brand name SIRUS product designation non-fused motor starts 3RA2 design of the product reversing starter manufacturer's article number SIRU015-1BB42 • of the supplied circuit-breakers SRU2011-1FA15 • of the supplied circuit-breakers SRU2011-1FA15 • of the supplied ink module SRU2011-1FA15 • of the circuit-breaker S00 size of the circuit-breaker S00 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 30000 000 type of assignment 1 Weight 0.93 kg Ambient conditions		
design of the product reversing starter manufacturor's article number RT2015-18B42 • of the supplied circuit-breakers BRV2011-1FA15 • of the supplied ink module BRA1921-1DA00 Gonard tachnical data	product brand name	SIRIUS
manufacturer's article number BR12015-18B42 • of the supplied contactor BR12011-1FA15 • of the supplied full-treakers BR2011-1FA15 • of the supplied full-treakers BR2011-1FA15 size of the circuit-breaker S00 size of the circuit-breaker 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 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 0000 type of assignment 1 Weight 0.93 kg Amblent conditions -20 +60 °C • during operation -20 +60 °C • during transport -55 +80 °C Main circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- 35 5 A operating royotage -50 +80 °C • at AC-3 rated value 690 V • at AC-3 rated value 36 A operating rowerd release 50 60 Hz operating rower at AC-3 1500 W • at 400 V rated value	product designation	non-fused motor starter 3RA2
• of the supplied icruit-breakers SRT2015-18B42 • of the supplied icruit-breakers SRX2011-1FA15 • of the supplied ink module SRA1921-1DA00 Central technical data SRA1921-1DA00 Size of the circuit-breaker S00 size of the circuit-breaker S00 rinsultion voltage with degree of pollution 3 at AC rated value 680 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 3000000 type of assignment 1 Weight 0.93 kg Ambient conditions -20 +60 °C • during operation -20 +60 °C • during itransport -55 +80 °C • during itransport 3 Insultion voltage of the current of the current. 600 V design of the switching contact electomechanical adjustable current response value current of the current. 35 5 A operating rolenges -50 480 °C • rated value 600 V • at AC-3 rated value 36 A operating rolengency rated value 36 A operating rolengency rated value 36 A operating	design of the product	reversing starter
	manufacturer's article number	
• of the supplied link module SRA19221-1DA00 General technical data size of the circuit-breaker S00 product extension auxiliary switch Yes Insulation voltage with degree of pollution 3 at AC rated value 600 V 600 V degree of pollution 3 surge voltage 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 Weight 0.93 kg Ambient temperature e during operation -20 +60 °C - during transport -20 +60 °C - during transport -20 +60 °C - during transport during transport -20 +60 °C - during transport during transport -20 +60 °C - during transport vining operation vinin current circuit	 of the supplied contactor 	<u>3RT2015-1BB42</u>
General technical data S00 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 680 V degree of pollution 3 surge voltage resistance rated value 68 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 Weight 0.93 kg Ambient conditions -20 +60 °C • during operation -20 +60 °C • during operation -20 +60 °C • during operation -20 +60 °C • during transport -55 +80 °C Main circuit 1 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent vortoad release 35 5 A operating voltage 690 V • at AC-3 rated value 690 V • at 40 V rated value 3.6 A operating power at AC-3 400 V rated value • at 400 V rated value 1500 W • at 400 V rated value 1500 W	 of the supplied circuit-breakers 	<u>3RV2011-1FA15</u>
size of the circuit-breaker \$00 size of load feeder \$00 product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value \$60 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 \$000000 type of assignment 1 Weight 0.93 kg Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -55 +80 °C Main circuit 3 number of poles for main current circuit 3 degred or value delate \$00 V • during torage -55 +80 °C Main circuit 3 number of poles for main current circuit 3 dependent overload release 000 V • at AC-3 rated value \$00 V • at AC-3 rated value \$00 V • at 400 V rated value \$20 W Control supply voltage at DC rated value \$24 V	 of the supplied link module 	<u>3RA1921-1DA00</u>
size of load feeder S00 product extension auxiliary switch Yes insulation voitage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voitage 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 Weight 0.93 kg Ambient conditions - ambient temperature - • during poration -20 +60 °C • during torage -50 +80 °C • during torage -50 +80 °C • during torage -50 +80 °C • during torage -55 +80 °C • during torage -50 +80 °C • at active till 3 operating voltage -50 +80 °C • during torage -55 +80 °C • at do value 690 V • at act value 30 60 Hz	General technical data	
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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 Weight 0.93 kg Ambient conditions - amblent temperature - • during storage -50 +60 °C • during transport -55 +80 °C Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- defor V operating voltage 5 A operating voltage 690 V • at AC-3 rated value 690 V • at AO-3 rated value 50 60 Hz operating requency rated value 3.6 A operating power at AC-3 400 V rated value • at 400 V rated value 2.60 W • at 400 V rated value 2.00 W control supply voltage at DC rated value	size of load feeder	S00
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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 Weight 0.93 kg Ambient conditions - ambient temperature - • during operation -20 +60 °C • during transport -55 +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 690 V operating voltage 50 60 Hz operating frequency rated value 50 60 Hz operating power at AC-3 - • at 400 V rated value 1500 W • at 400 V rated value 200 W Control circuit Control - control circuit Querent circuit - operating now rat AC-3 - • at 400 V rated value 200 W control circuit Y control - control supply voltage at DC rated value 24 V	insulation voltage with degree of pollution 3 at AC rated value	690 V
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 Weight 0.93 kg Ambient conditions	degree of pollution	3
mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 Weight 0.93 kg Ambient conditions	surge voltage resistance rated value	6 kV
type of assignment 1 Weight 0.93 kg Ambient conditions	shock resistance according to IEC 60068-2-27	6g / 11 ms
Weight 0.93 kg Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -55 +80 °C Main circuit 3 rumber of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- 3.5 5 A 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 2 200 W Control circuit/ Control 2 200 W	mechanical service life (operating cycles) of contactor typical	30 000 000
Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -55 +80 °C Main circuit 3 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 5 A • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating power at AC-3 60 Hz operating power at A	type of assignment	1
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• during operation-20 +60 °C• during storage-50 +80 °C• during transport-55 +80 °CMain circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release35 5 Aoperating voltage690 V• at AC-3 rated value690 V• at AC-3 rated value50 60 Hzoperating frequency rated value3.6 Aoperating power at AC-31 500 W• at 400 V rated value1 500 W• at 500 V rated value2 200 WControl circuit/ Control24 Vholding power of magnet coil at DC24 V	Ambient conditions	
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• during transport -55 +80 °C Main circuit 3 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 3.5 5 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power at AC-3 3.6 A operating power at AC-3 1 500 W • at 400 V rated value 1 500 W • at 500 V rated value 2 200 W Control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	 during operation 	-20 +60 °C
Main circuit 3 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 35 5 A operating voltage 690 V • rated value 690 V • 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 • at 400 V rated value 1 500 W • at 500 V rated value 2 200 W Control circuit/ Control 2200 W Control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	during storage	-50 +80 °C
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 3.5 5 A operating voltage 690 V • rated value 690 V • 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 3.6 A operating power at AC-3 1 500 W • at 400 V rated value 2 200 W Control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	 during transport 	-55 +80 °C
design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 3.5 5 A operating voltage 690 V • rated value 690 V • 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 3.6 A operating power at AC-3 1 500 W • at 400 V rated value 1 500 W • at 500 V rated value 2 200 W Control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	Main circuit	
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dependent overload releaseoperating voltage• rated value690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperational current at AC-3 at 400 V rated value3.6 Aoperating power at AC-31 500 W• at 400 V rated value1 500 W• at 400 V rated value2 200 WControl circuit/ Controlcontrol supply voltage at DC rated value24 Vholding power of magnet coil at DC4 W	design of the switching contact	electromechanical
• rated value 690 V • 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 3.6 A operating power at AC-3		3.5 5 A
• 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 3.6 A operating power at AC-3	operating voltage	
operating frequency rated value50 60 Hzoperational current at AC-3 at 400 V rated value3.6 Aoperating power at AC-3-• at 400 V rated value1 500 W• at 500 V rated value2 200 WControl circuit/ Control-control supply voltage at DC rated value24 Vholding power of magnet coil at DC4 W	rated value	690 V
operational current 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 500 V rated value 2 200 W Control circuit/ Control - control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	 at AC-3 rated value maximum 	690 V
operating power at AC-3 1 500 W • at 400 V rated value 1 500 W • at 500 V rated value 2 200 W Control circuit/ Control 24 V holding power of magnet coil at DC 4 W	operating frequency rated value	50 60 Hz
• at 400 V rated value 1 500 W • at 500 V rated value 2 200 W Control circuit/ Control 24 V holding power of magnet coil at DC 4 W	operational current at AC-3 at 400 V rated value	3.6 A
• at 500 V rated value 2 200 W Control circuit/ Control 24 V control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	operating power at AC-3	
Control circuit/ Control control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	 at 400 V rated value 	1 500 W
control supply voltage at DC rated value 24 V holding power of magnet coil at DC 4 W	• at 500 V rated value	2 200 W
holding power of magnet coil at DC 4 W	Control circuit/ Control	
	control supply voltage at DC rated value	24 V
Auxiliary circuit	holding power of magnet coil at DC	4 W
	Auxiliary circuit	

number of NC contacts for auxiliany contacts	2
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	1
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	0.17 hp
- 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 \/ rated value	1 hp
- 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	Vee
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450,000 A
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	170 mm
width	90 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	0.5 2.5 mm²
stranded with core end processing	0.0 2.0 mm
Safety related data	
proportion of dangerous failures with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
Electrical Safety	
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
Approvals Certificates	
	For use in hazard-
General Product Approval	ous locations

CE EG-Konf.	UK CA	<u>Confirmation</u>		EAC	ATEX ATEX
Test Certificates		Marine / Shipping			
Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		Lloyds Register us
Marine / Shipping			other	Railway	Dangerous goods
PRS	RINA	RMRS	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Transport Information
Environment					
Environmental Con- firmations					

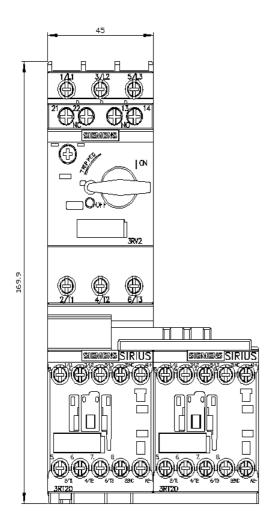
Further information

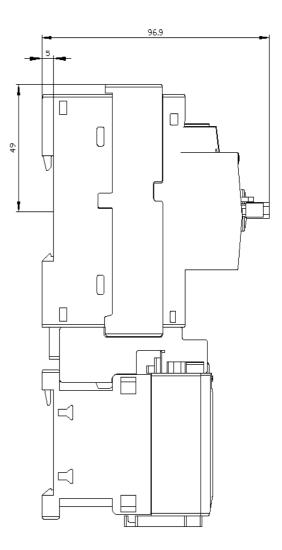
Information on the packaging

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) all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2215-1FA15-2BB4 https://m Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2215-1FA15-2BB4 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1FA15-2BB4 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2215-1FA15-2BB4&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

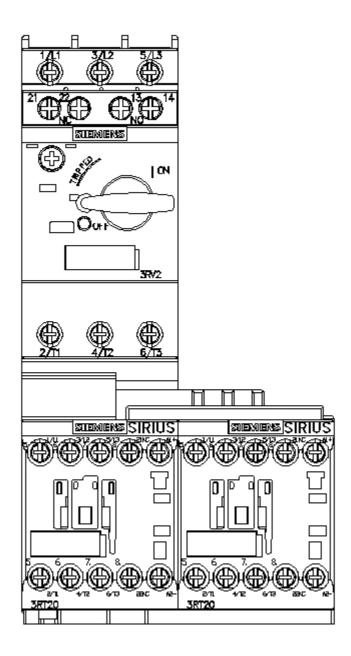
https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1FA15-2BB4/char

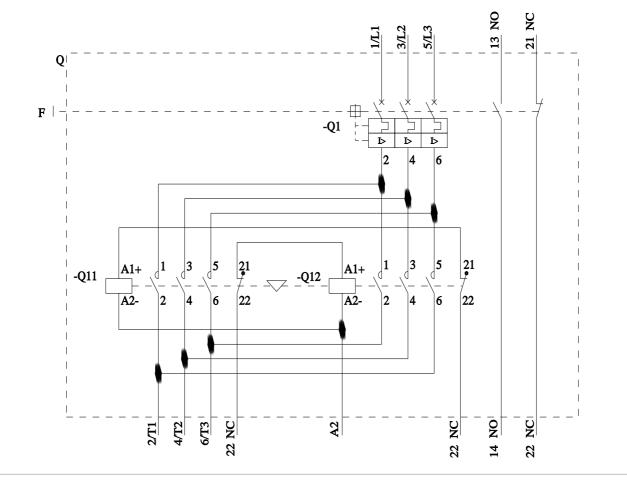
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2215-1FA15-2BB4&objecttype=14&gridview=view1





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