SIEMENS

Data sheet



Fuseless motor starter Reversing operation 600VAC Size S00 0.11-0.16a 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 NC (per contactor)

product designation non-fused motor starter 3RA2 design of the product reversing starter of the supplied contactor of the supplied clincult-breakers size of the circult-breaker size of the circult-breaker size of load feeder so product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2:27 g/ 11 ms mechanical service life (operating cycles) of contactor typical surge voltage resistance (Despension of the supplied for surge voltage of the surge volt	product brand name	SIRIUS
manufacturer's article number of the supplied contactor of the supplied contactor of the supplied contactor of the supplied link module aRA1921-1DA00 Ceneral technical data size of load feeder size of the circuit-breaker size of load feeder size of load feeder product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution aurge voltage resistance rated value 680 V degree of pollution surge voltage resistance rated value 680 V degree of pollution 3 surge voltage resistance according to IEC 60088-2-27 69 /11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 2 Substance Prohibitance (Date) 3030/2017 SYHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient temperature during operation during storage during transport - during storage - during transport - during transport - during transport - design of the switching contact - degree of poles for main current circuit design of the switching contact - dependent overload release operating voltage - rated value - a rated	product designation	non-fused motor starter 3RA2
of the supplied contactor of the supplied circuit-breakers of the supplied link module and supplied link module size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of toad feeder product extension auxiliary switch (Yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution assurge voltage resistance rated value shock resistance according to IEC 60088-2-27 growth resistance according to IEC 6008-2-2-27 growth resistance according to IEC 6008-2-2-27 growth resistance according to IEC 6008-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	design of the product	reversing starter
of the supplied circuit-breakers of the supplied link module 3RA1921-1DA00 Size of the circuit-breaker size of to circuit-breaker Size of toad feeder Size of toad feeder Product extension auxiliary switch Yes Insulation voltage with degree of pollution 3 at AC rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage resistance rated value 890 V degree of pollution 3 surge voltage viet degree of pollution 3 at AC rated value 890 V degree of pollution 90 000 000 4	manufacturer's article number	
of the supplied link module General technical data size of the circuit-breaker size of the circuit-breaker size of toad feeder product extension auxiliary switch product extension auxiliary switch residence of pollution 3 at AC rated value gery of pollution guine voltage resistance rated value shock resistance according to IEC 60068-2-27 for extension size of contact of typical shock resistance according to IEC 60068-2-27 guine denical service life (operating cycles) of contactor typical substance Prohibitance (Date) 30 000 000 30 000 000 30 000 000 30 000 00	 of the supplied contactor 	3RT2015-1AK62
Size of the circuit-breaker size of load feeder product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 degree of gentle (operating cycles) of contactor typical type of assignment Substance Prohibitance (Date) SYHC substance name Lead - 7439-92-1 Weight during operation during storage during storage during storage during transport 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 at AC-3 rated value at AC-3 rated value operating frequency rated value operating power at AC-3 at 400 V rated value 4 d W at 690 V rated value operating power at AC-3 at 690 V rated value 4 d W at 690 V rated value 4 d W at 690 V rated value 4 d W 4 d W at 690 V rated value 4 d W 4 d W 4 d W 4 at 690 V rated value 4 at 690 V rated value 4 d W 4 d W 4 at 690 V rated value 4 at 690 V rated value 4 d W 4 d W 4 at 690 V rated value 4 at 690 V rated value 4 d W 4 d W 4 d W 4 d W 4 d W 4 d OW 4 d 690 V rated value 4 d OW 4 d 690 V rated value 4 d OW 4 d 690 V rated value 6 d 600 W	 of the supplied circuit-breakers 	3RV2011-0AA10
Size of the circuit-breaker	 of the supplied link module 	3RA1921-1DA00
size of load feeder \$00 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 2 Substance Prohibitance (Date) 03/01/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg 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 0.11 0.16 A operating voitage • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated valu	General technical data	
product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value 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 type of assignment 2 Substance Prohibitance (Date) 30/1/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions ambient temperature during operation -20 +60 °C -50 +80 °C -55 +80 °C Auding transport 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 1 at AC-3 rated value maximum 0 operating prower at AC-3 1 at 400 V rated value 1 at 400 V rated value 1 at 690 V rated value 1 at 400 V rated value 1 at 690 V rated value	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 30 000 000 type of assignment 2 Substance Prohibitance (Date) 03/01/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions ambient temperature • during operation -20 +60 °C • during stransport -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 operating voltage • rated value • at AC-3 rated value maximum 690 V operating requency rated value operating power at AC-3 • at 400 V rated value • at 690 V rated value	size of load feeder	S00
degree of pollution 3 surge voltage resistance rated value 6 kV	product extension auxiliary switch	Yes
surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 03/01/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions ambient temperature during operation during storage 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 operation current at AC-3 at 400 V rated value o at 400 V rated value at 600 V vated value at 600 V rated value o at 600 V rated value	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 2 Substance Prohibitance (Date) 33/01/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions ambient temperature • during operation • during storage • during transport 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 operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 690 V V rated value	degree of pollution	3
mechanical service life (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 30 000 000 SYHC substance name Lead - 7439-92-1 Weight Ambient conditions ambient temperature	surge voltage resistance rated value	6 kV
type of assignment 2 Substance Prohibitance (Date) 03/01/2017 SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions	shock resistance according to IEC 60068-2-27	6g / 11 ms
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +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 operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V vrated value • at 690 V rated value	mechanical service life (operating cycles) of contactor typical	30 000 000
SVHC substance name Lead - 7439-92-1 Weight 0.63 kg Ambient conditions ambient temperature • during operation • during storage • during storage • during transport -55 +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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value	type of assignment	2
Weight 0.63 kg Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °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 operating voltage • rated value 690 V operating frequency rated value 50 60 Hz operating power at AC-3 at 400 V rated value 0.16 A operating power at AC-3 • at 400 V rated value 40 W • at 500 V rated value 40 W • at 690 V rated value 40 W • at 690 V rated value 40 W • at 690 V rated value 60 W	Substance Prohibitance (Date)	03/01/2017
Ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +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 operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value	SVHC substance name	Lead - 7439-92-1
ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +80 °C 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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V • at 690 V operating power at AC-3 • at 400 V rated value • at 690 V rated value • at 690 V rated value	Weight	0.63 kg
 during operation during storage during transport 55 +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 operating frequency rated value operating power at AC-3 at 400 V rated value at 400 V rated value at 500 V rated value at 690 V 	Ambient conditions	
• during storage • during transport • during transport 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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V operating power at AC-3 • at 400 V rated value • at 690 V rated value	ambient temperature	
• during transport -55 +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 operating frequency rated value operating requency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V vated value operating power at AC-3 • at 400 V rated value • at 690 V rated value	during operation	-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 operating frequency rated value operating current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V vated value • at 690 V vated value 60 W	during storage	-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 operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V operating power at AC-3 • at 690 V rated value 60 W	during transport	-55 +80 °C
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 operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V 690 V 0.16 A	Main circuit	
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 690 V 0.16 A 0.16 A	number of poles for main current circuit	3
dependent overload release operating voltage • rated value • 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 0.16 A operating power at AC-3 • at 400 V rated value • at 500 V rated value 40 W • at 690 V rated value 60 W	design of the switching contact	electromechanical
 rated value 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 0.16 A operating power at AC-3 at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value 60 W 		0.11 0.16 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 0.16 A operating power at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value 60 W 	operating voltage	
operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 60 W	rated value	690 V
operational current at AC-3 at 400 V rated value 0.16 A operating power at AC-3 • at 400 V rated value 40 W • at 500 V rated value 40 W • at 690 V rated value 60 W	at AC-3 rated value maximum	690 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 60 W	operating frequency rated value	50 60 Hz
 at 400 V rated value at 500 V rated value at 690 V rated value 60 W 	operational current at AC-3 at 400 V rated value	0.16 A
 at 500 V rated value at 690 V rated value 60 W 	operating power at AC-3	
at 690 V rated value 60 W	• at 400 V rated value	40 W
	• at 500 V rated value	40 W
Control circuit/ Control	at 690 V rated value	60 W

control supply voltage at AC	
at 50 Hz rated value	110 V
at 50 Hz rated value	93.5 121 V
at 60 Hz rated value	120 V
at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	4.8 VA
inductive power factor with the holding power of the coil	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	2.08 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
• at 690 V according to IEC 60947-4-1 rated value	100 000 A
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
at 500 V according to IEC 60947-4-1 rated value	100 000 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 stranded with core end processing	0.5 2.5 mm²
Safety related data	
proportion of dangerous failures with high demand rate	73 %
according to SN 31920	
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	
General Product Approval	For use in hazard-
	ous locations



Confirmation









Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway

Environment







Confirmation

Special Test Certificate

Environmental Confirmations

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=3RA2210-0AA15-2AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2210-0AA15-2AK6}}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0AA15-2AK6

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

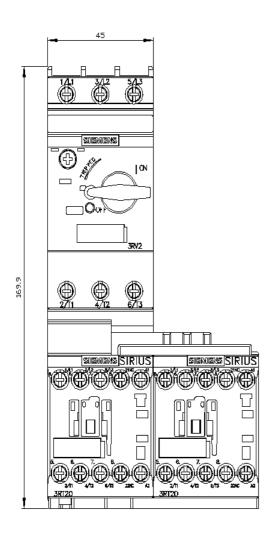
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0AA15-2AK6&lang=en

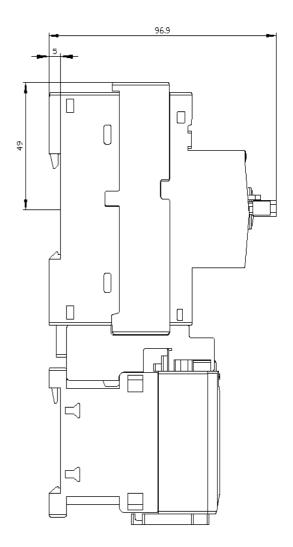
Characteristic: Tripping characteristics, I2t, Let-through current

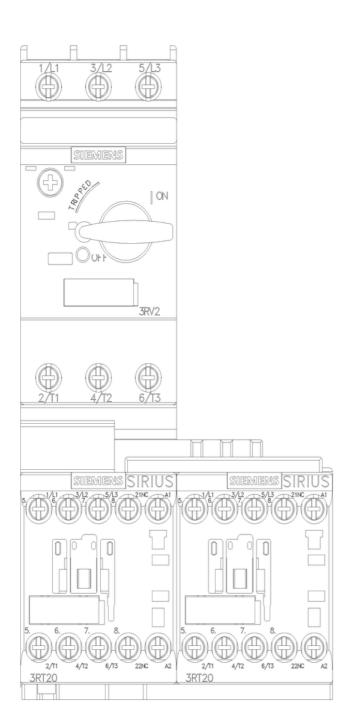
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0AA15-2AK6/char

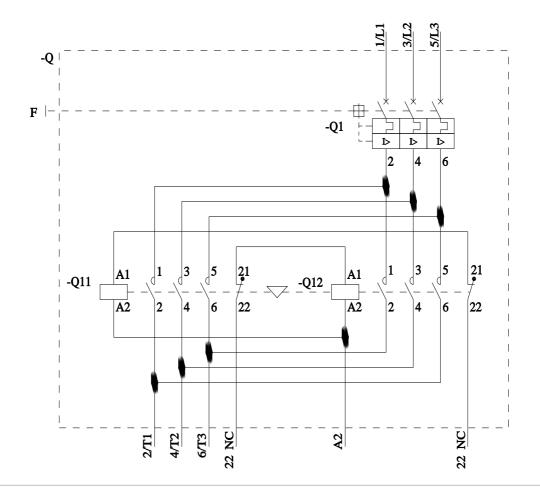
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0AA15-2AK6&objecttype=14&gridview=view1









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Authorized Distributor

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