3RA2110-4AA18-1AK6

Data sheet



FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S00 10...16A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, TYPE OF ASSIGNMENT 1,IQ = 150KA 1NO (CONTACTOR)

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 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 Substance Prohibitance (Date) 10/01/2009 Ambient conditions **** *** *** *** *** ** ** **	product brand name	SIRIUS
design of the product direct starter	<u> </u>	non-fused load feeders 3RA2
manufacturer's article number of the supplied contactor of the supplied link module street s		direct starter
• of the supplied circuit-breakers • of the supplied link module 3RA1921-1DA00 3RA1921-1DA00 3RA1921-1DA00 3size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of to lad feeder product extension auxiliary switch product extension auxiliary switch risulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 keV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 ypo of assignment 11 10 1001/2009 Ambient temperature • during operation • during storage • during transport • during potention • during storage • during transport • fob on the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 600 V rated value		
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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 690 V degree of pollution S10 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 100012009 Ambient conditions ambient temperature • during operation • 20 +60 °C • during storage • during transport • 50 +80 °C • during storage • during transport • 50 +80 °C • during transport • 20 +60 °C • during transport • 600 +80 °C • during transport • 600 V • at AC-3 rated value maximum • 690 V • at AC-3 rated value maximum • 690 V • operating frequency rated value • 600 V • at AC-3 rated value — 7 500 W • at 400 V rated value • 7 500 W • at 500 V rated value • 7 500 W • at 500 V rated value • 1 500 V rated value • 1 1000 W • Operating frequency rated value • 1 1000 W • Operating frequency rated value • 1 1000 W	**	
size of load feeder product extension auxiliary switch Presinsulation 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 ype of assignment 1 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation • during storage • during transport • 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 • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operating frequency rated value operating frequency rated value 15.5 A operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value	General technical data	
product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 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 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature during storage 50 +60 °C 50 +80 °C 50 +80 °C 60 °C 60 +80 °C 60 °C 60 +80 °C 60 °C 60 °C 60 +80 °C	size of the circuit-breaker	S00
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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 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °	product extension auxiliary switch	Yes
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 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C adjustable 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 arted value maximum 690 V operating frequency rated value operating power at AC-3 • at 400 V rated value • at 400 V rated value • at 4500 V rated value • at 6500 V rated value	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 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport 3 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 frequency rated value operating power at AC-3 • at 400 V rated value • at 400 V rated value • at 600 V rated value operating power at AC-3 • at 400 V rated value • at 600 V rated value 15.5 A operating power at AC-3 • at 400 V rated value • at 600 V vated value • at 600 V rated value 15.5 A operating power at AC-3 • at 400 V rated value • at 600 V rated value	degree of pollution	3
mechanical service life (operating cycles) of contactor typical type of assignment 1 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during storage • during transport 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 operational current at AC-3 at 400 V rated value • at 400 V rated value • at 690 V rated value	surge voltage resistance rated value	6 kV
type of assignment 1 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +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 -3 at AC-3 rated value -3 at 400 V rated value -3 at 690	shock resistance according to IEC 60068-2-27	6g / 11 ms
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -50 +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 power at AC-3 operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value	mechanical service life (operating cycles) of contactor typical	30 000 000
Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C -50 +80 °C -50 +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 vated value • at 690 V vated value • at 690 V vated value • at 690 V rated value	type of assignment	1
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oduring transport	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 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 15.5 A operating power at AC-3 • at 400 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value 7 500 W • at 690 V rated value	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 500 V rated value operating power at AC-3 • at 400 V rated value 15.5 A operating power at AC-3 • at 400 V rated value 7 500 W • at 690 V rated value 11 16 A description 690 V 7 500 W • at 600 Hz 10 00 W Control circuit/ Control control supply voltage at AC	during transport	-50 +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 7 500 W • at 690 V rated value 11 16 A description of the switching contact 12 16 A description of the switching contact 13 16 A description of the switching contact 14 16 A description of the switching contact 15 16 A description of the switching all 16 A description of the switching all 16 A description of the current- 16 16 A description of the switching all 16 A description of the current- 16 16 A description of the current- 17 16 A description of the current- 18 16 A description of the current- 19 16 A description of the current- 10 A description of the current- 11 16 A description of the current- 12 16 A description of the current- 13 16 A description of the current- 14 16 A description of the current- 15 16 A description of the current- 16 16 A description of the current- 17 16 A description of the current- 18 16 A description of the current- 19 16 A description of the current- 19 16 A description of the current- 19 16 A description of the current- 10 16 A description of the current- 11 16 A descr	Main circuit	
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operating voltage • rated value • 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 15.5 A operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value output	design of the switching contact	electromechanical
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operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 operating pow	• rated value	690 V
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 control circuit/ Control control supply voltage at AC	at AC-3 rated value maximum	690 V
operating power at AC-3 • at 400 V rated value 7 500 W • at 500 V rated value 7 500 W • at 690 V rated value 11 000 W Control circuit/ Control control supply voltage at AC	operating frequency rated value	50 60 Hz
 at 400 V rated value at 500 V rated value at 690 V rated value 11 000 W Control circuit/ Control control supply voltage at AC 	operational current at AC-3 at 400 V rated value	15.5 A
at 500 V rated value at 690 V rated value 11 000 W Control circuit/ Control control supply voltage at AC	operating power at AC-3	
at 690 V rated value Control circuit/ Control control supply voltage at AC	• at 400 V rated value	7 500 W
Control circuit/ Control control supply voltage at AC	• at 500 V rated value	7 500 W
control supply voltage at AC	at 690 V rated value	11 000 W
	Control circuit/ Control	
• at 50 Hz rated value 110 V	control supply voltage at AC	
	• at 50 Hz rated value	110 V

at 60 Hz rated value	120 V
apparent holding power of magnet coil at AC	5.7 VA
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	
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	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
 at 460/480 V rated value 	10 hp
 at 575/600 V rated value 	10 hp
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 	4 000 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 	5 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	167.2 mm
width	45 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	
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 %
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
Certificates/ approvals	
General Product Approval	For use in hazard- ous locations Declaration of Conformity











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certific-









Marine / Shipping

other Railway







Confirmation

Vibration and Shock

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=3RA2110-4AA18-1AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-4AA18-1AK6}}$

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

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

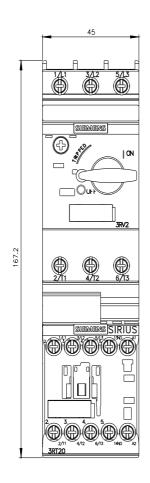
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

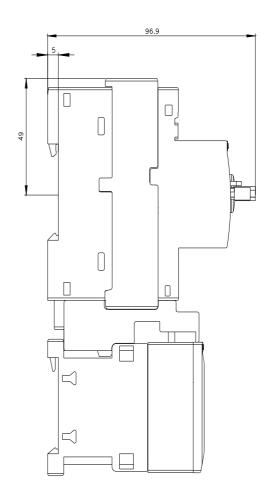
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-4AA18-1AK6&lang=en

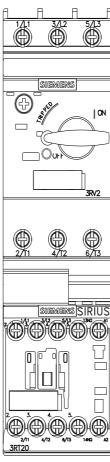
Characteristic: Tripping characteristics, I2t, Let-through current

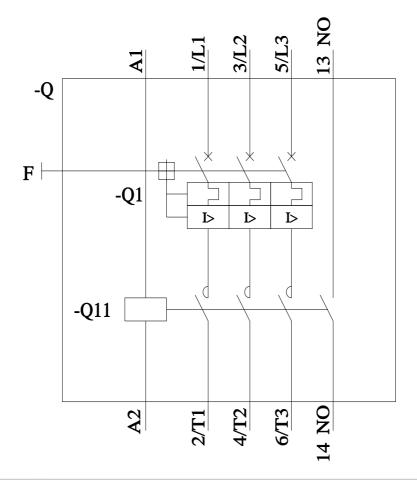
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AA18-1AK6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-4AA18-1AK6&objecttype=14&gridview=view1









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