## SIEMENS

## Data sheet

## 3RA2110-1BA15-1AP6



Fuseless motor starter Direct start 600VAC Size S00 1.4-2A 220/240VAC 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 1NO (contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2015-1AP61</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1BA10</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA1921-1DA00</u>
General technical data	
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	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
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	1.4 2 A
operating voltage	
<ul> <li>rated value</li> </ul>	690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	1.9 A
operating power at AC-3	
• at 400 V rated value	750 W
<ul> <li>at 500 V rated value</li> </ul>	750 W
at 690 V rated value	1 100 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 50 Hz rated value	187 242 V

	040.1/			
at 60 Hz rated value	240 V			
at 60 Hz rated value	192 264 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 NO contacts for auxiliary contacts	1			
Protective and monitoring functions	01.400.40			
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	1.63 A			
at 600 V rated value	1.72 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 230 V rated value	0.13 hp			
• for 3-phase AC motor				
— at 460/480 V rated value	0.75 hp			
— at 575/600 V rated value	1 hp			
Short-circuit protection				
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
conditional short-circuit current (Iq)				
<ul> <li>at 690 V according to IEC 60947-4-1 rated value</li> </ul>	100 000 A			
<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	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	167.2 mm			
width	45 mm			
depth	97.1 mm			
required spacing				
<ul> <li>for grounded parts</li> </ul>				
— 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	0.5 4 mm², 2x (0.75 2.5 mm²)			
stranded				
connectable conductor cross-section for main contacts finely	0.5 2.5 mm²			
stranded with core end processing				
Safety related data	4 000 000			
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			
ich 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			

<u>Confirmation</u>		EAC	ATEX	C E EG-Konf.	UK CA
Test Certificates		Marine / Shipping			
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS	Lloyds Register uks	PRS
Marine / Shipping			other	Railway	
RINA	RMRS RMRS	DNV-GL CHMILCORNE	<u>Confirmation</u>	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)					

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1BA15-1AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1BA15-1AP6

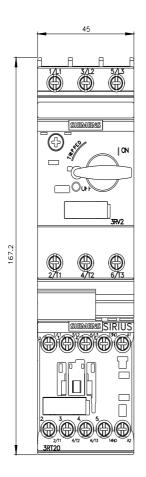
Service&Support industry siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP6 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

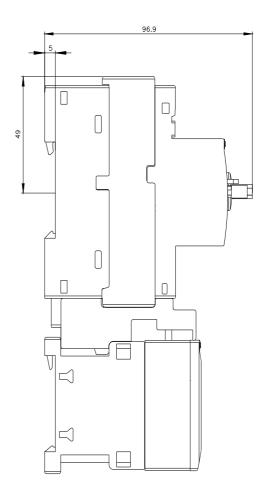
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1BA15-1AP6&lang=en

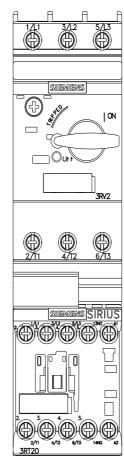
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

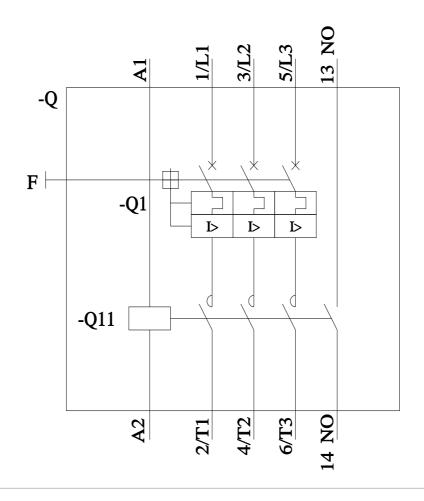
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP6/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1BA15-1AP6&objecttype=14&gridview=view1









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