## 3RA2110-1FA15-1AP0

**Data sheet** 



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 3.50...5.00 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NO (contactor)

product brand name	SIRIUS	
product designation	Direct (on-line) starter	
design of the product	for standard rail or screw mounting	
product type designation	3RA21	
manufacturer's article number		
<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1AP01	
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1FA10	
<ul> <li>of the supplied link module</li> </ul>	3RA1921-1DA00	
General technical data		
size of the circuit-breaker	S00	
size of load feeder	S00	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.6 W	
without load current share typical	4.2 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	1	
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		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
<ul> <li>during storage</li> </ul>	-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	3	
design of the switching contact	electromechanical	
adjustable current response value current of the current- dependent overload release	3.5 5 A	
operating voltage		
• rated value	690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V	

	50 0011-
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	5 A
at AC-3e at 400 V rated value	5 A
operating power	
• at AC-3	4 ====
— at 400 V rated value	1 500 W
• at AC-3e	
— at 400 V rated value	1 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	000.4
• at 50 Hz rated value	230 V
• at 50 Hz rated value	230 230 V
at 60 Hz rated value	230 V
at 60 Hz rated value	230 230 V
apparent holding power of magnet coil at AC	4.2 VA
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
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	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	5 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
<ul> <li>◆ for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	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	167 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts</li> </ul>	
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
• for live parts	
•	

— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
protocol is supported	
<ul> <li>PROFINET IO protocol</li> </ul>	No
PROFIsafe protocol	No
protocol is supported AS-Interface protocol	No
Certificates/ approvals	
General Product Approval	For use in hazard-

Confirmation

**General Product Approval** 







ous locations



**Declaration of Conformity** 



**Test Certificates** 

Marine / Shipping

Special Test Certificate Type Test Certificates/Test Report









Marine / Shipping

RMRS



Confirmation

other

Vibration and Shock

Railway

## 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=3RA2110-1FA15-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1FA15-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0

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

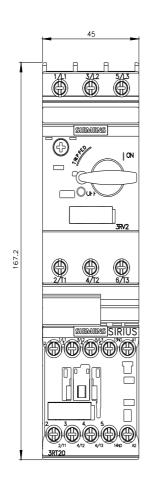
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1FA15-1AP0&lang=en

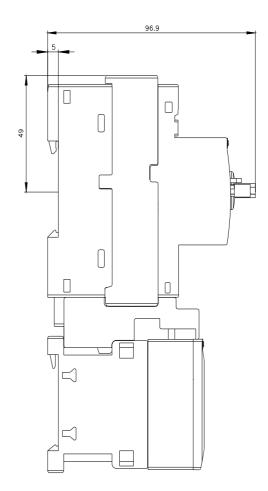
Characteristic: Tripping characteristics, I²t, Let-through current

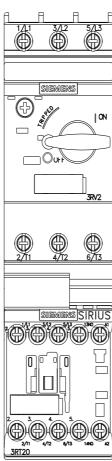
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0/char

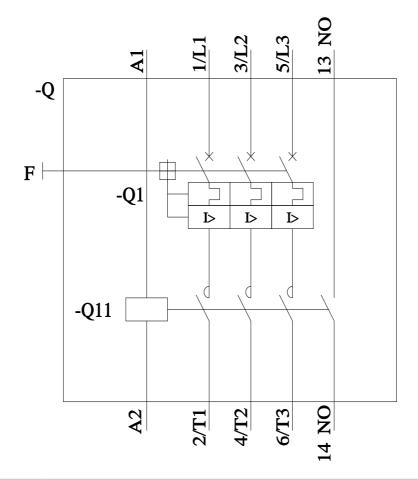
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1FA15-1AP0&objecttype=14&gridview=view1









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