## **SIEMENS**

## **Data sheet**

## 3RA2110-1JD16-1AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 7.00...10.0 A 230 V AC screw terminal for 60 mm busbar systems Type of coordination 1, lq = 150 kA 1 NO (contactor)

product brand name	SIRIUS		
product designation	Direct (on-line) starter		
design of the product	for 60 mm busbars		
product type designation	3RA21		
manufacturer's article number			
<ul> <li>of the supplied contactor</li> </ul>	3RT2016-1AP01		
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1JA10		
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>8US1251-5DS10</u>		
<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>	3.4 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	7 10 A		
operating voltage			
rated value	690 V		
• at AC-3 rated value maximum	690 V		

at AC-3e rated value maximum	690 V			
operating frequency rated value	50 60 Hz			
operational current				
• at AC-3 at 400 V rated value	9 A			
at AC-3e at 400 V rated value	9 A			
operating power				
• at AC-3				
— at 400 V rated value	4 000 W			
• at AC-3e				
— at 400 V rated value	4 000 kW			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
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	160			
	01 400 40			
trip class	CLASS 10			
design of the overload release	thermal (bimetallic)			
response value current of instantaneous short-circuit trip unit	130 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	7.6 A			
at 600 V rated value	7.6 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	0.33 hp			
— at 230 V rated value	1 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	2 hp			
<ul> <li>— at 220/230 V rated value</li> </ul>	3 hp			
— at 460/480 V rated value	5 hp			
— at 575/600 V rated value	7.5 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	vertical			
	for snapping onto 60 mm busbar systems			
height				
	for snapping onto 60 mm busbar systems			
height width	for snapping onto 60 mm busbar systems 203 mm			
height width depth	for snapping onto 60 mm busbar systems 203 mm 45 mm			
height width depth required spacing	for snapping onto 60 mm busbar systems 203 mm 45 mm			
height width depth required spacing • for grounded parts	for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm			
height width depth required spacing  • for grounded parts — forwards	for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm			
height width depth required spacing  • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm  20 mm 0 mm			
height width depth required spacing  • for grounded parts — forwards — backwards — upwards	for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm  20 mm 0 mm 50 mm			
height width depth required spacing  • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm  20 mm 0 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					
<ul> <li>for main current circuit</li> </ul>	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- ous locations	Declaration of Conformity		

Confirmation











**Test Certificates** 

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping





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=3RA2110-1JD16-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1JD16-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JD16-1AP0

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

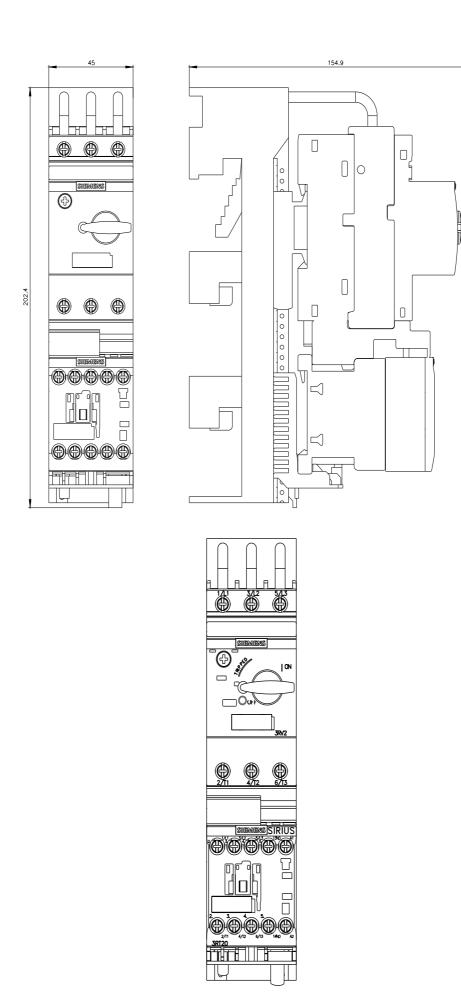
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1JD16-1AP0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1JD16-1AP0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1JD16-1AP0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1JD16-1AP0&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx.com/bilddb/cax\_de.a$ 

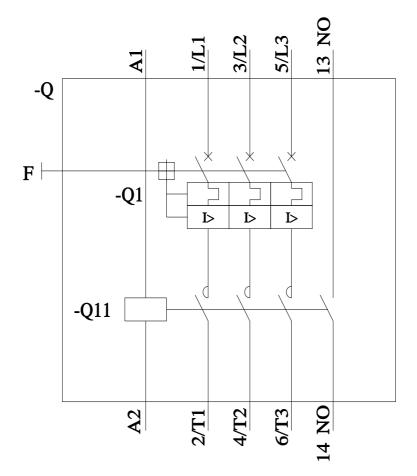
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JD16-1AP0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1JD16-1AP0&objecttype=14&gridview=view1





last modified: 4/17/2023 🖸