## 3RA2110-1KD17-1AP0

**Data sheet** 



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 9.00...12.5 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>	3RT2017-1AP01		
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1KA10		
<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>	3.6 W		
without load current share typical	5.7 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		
during storage	-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	9 12.5 A		
operating voltage			
• rated value	690 V		
• at AC-3 rated value maximum	690 V		

	2001/		
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	12 A		
at AC-3e at 400 V rated value	12 A		
operating power			
• at AC-3			
— at 400 V rated value	5 500 W		
• at AC-3e			
— at 400 V rated value	5 500 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	5.7 VA		
• at 50 Hz	5.7 VA		
• at 60 Hz	4.4 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	100		
	01 400 40		
trip class	CLASS 10		
design of the overload release	thermal (bimetallic)		
response value current of instantaneous short-circuit trip unit	163 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	11 A		
at 600 V rated value	11 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	0.5 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	3 hp		
— at 460/480 V rated value	7.5 hp		
— at 575/600 V rated value	10 hp		
Short-circuit protection			
Short-circuit protection product function short circuit protection	Yes		
product function short circuit protection	Yes		
product function short circuit protection design of the short-circuit trip	Yes		
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	Yes magnetic		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value	Yes magnetic		
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	Yes magnetic 150 000 A		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position	Yes magnetic 150 000 A vertical		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems		
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm		
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing • for grounded parts	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm  20 mm 0 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards	Yes magnetic  150 000 A  vertical for snapping onto 60 mm busbar systems 203 mm 45 mm 155 mm  20 mm 0 mm 50 mm		
product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards	Yes magnetic  150 000 A  vertical 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		

Test Certificates

Confirmation

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









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=3RA2110-1KD17-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1KD17-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KD17-1AP0

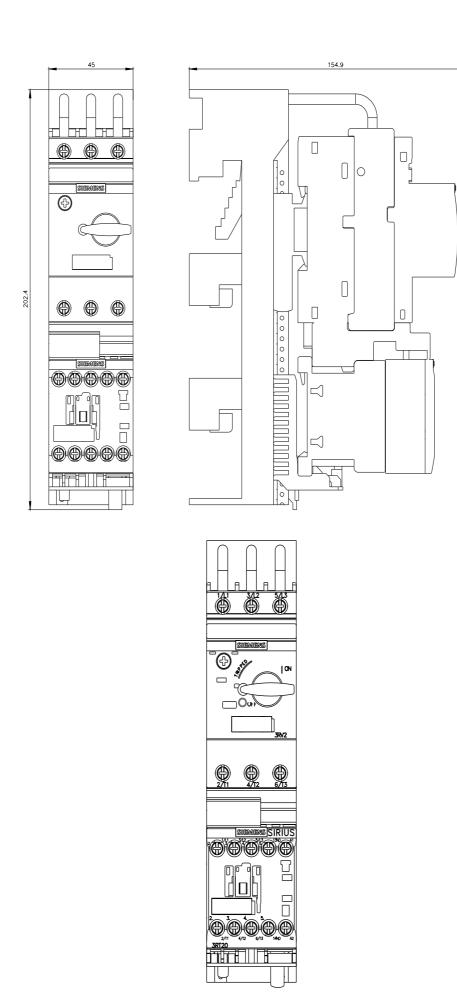
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

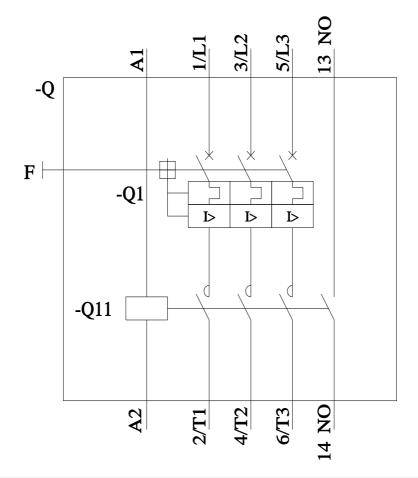
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1KD17-1AP0\&lang=en}}$ 

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KD17-1AP0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1KD17-1AP0&objecttype=14&gridview=view1





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