## SIEMENS

## Data sheet

## 3RA2110-1KH17-1AP0



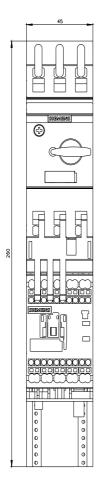
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 9.00...12.5 A 230 V AC Spring-type terminal for 60 mm busbar systems Type of coordination 1, Iq = 150 kA 1 NO (contactor)

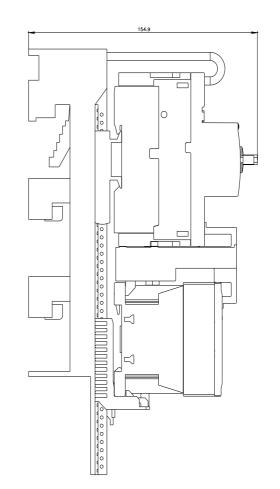
product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for 60 mm busbars
product type designation	3RA21
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2017-2AP01</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1KA20</u>
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>8US1251-5DT11</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2911-2AA00</u>
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
<ul> <li>without load current share typical</li> </ul>	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
<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	9 12.5 A
operating voltage	
rated value	690 V
• at AC-3 rated value maximum	690 V

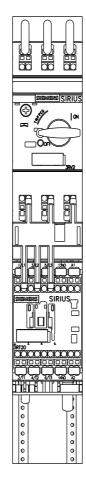
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	12 A
at AC-3e at 400 V rated value	12 A
operating power	
• at AC-3	
— at 400 V rated value	5 500 W
• at AC-3e	
— at 400 V rated value	5 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
<ul> <li>at 50 Hz rated value</li> </ul>	230 230 V
<ul> <li>at 60 Hz rated value</li> </ul>	230 V
<ul> <li>at 60 Hz rated value</li> </ul>	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	
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
<ul> <li>at 600 V rated value</li> </ul>	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (lg)	magnoto
at 400 V according to IEC 60947-4-1 rated value	150 000 A
• at 400 v according to IEC 60947-4-1 rated value	
	vertical
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	260 mm
width	45 mm
depth	155 mm
required spacing	
for grounded parts	00
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm

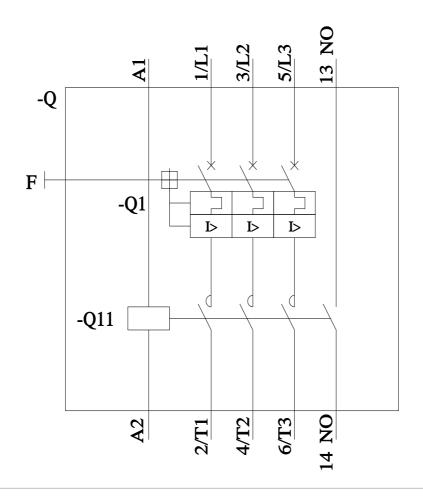
• for live parts						
— forwards		20 mm				
— backwards		0 mm				
— upwards		50 mm				
— downwards		10 mm				
— at the side		20 mm				
Connections/ Terminals						
type of electrical connection						
for main current circuit		spring-loaded terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded terminals				
Safety related data	-	spring loaded terminals				
	000	4 000 000				
B10 value with high demand rate according to SN 31	920	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 60	529	finger-safe, for vertical contact	t 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	-	110				
General Product Approval		For use in hazard- ous locations	Declaration of Conformit	ty		
Confirmation	EAC	ATEX	C C EG-Konf.	UK CA		
Test Certificates	/larine / Shippir	ng				
Special Test Certific- ate         Type Test Certific- ates/Test Report	ABS		Lloyds Register us	PRS		
Marine / Shipping		other	Railway			
	DNV-GL	<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)						
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1KH17-1AP0 Cax online generator						
http://support.automation.siemens.com/WW/CAXord	er/default.aspx?	lang=en&mlfb=3RA2110-1KH	<u>17-1AP0</u>			
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KH17-1AP0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
<u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1KH17-1AP0⟨=en</u> Characteristic: Tripping characteristics, I²t, Let-through current						
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KH17-1AP0/char						
Further characteristics (e.g. electrical endurance, switching frequency)						
http://www.automation.siemens.com/bilddb/index.as	http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1KH17-1AP0&objecttype=14&gridview=view1					

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