



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, I_q = 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 style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied busbar adapter • of the supplied link module 	3RT2017-2AP01 3RV2011-1KA20 8US1251-5DT11 3RA2911-2AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S00
power loss [W] for rated value of the current	
<ul style="list-style-type: none"> • at AC in hot operating state per pole • without load current share typical 	3.6 W 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 coordination	1
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	1.128 kg
Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +60 °C -50 ... +80 °C -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	
<ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum 	690 V 690 V

<ul style="list-style-type: none"> at AC-3e rated value maximum 	690 V
operating frequency rated value	50 ... 60 Hz
operational current	
<ul style="list-style-type: none"> at AC-3 at 400 V rated value 	12 A
<ul style="list-style-type: none"> at AC-3e at 400 V rated value 	12 A
operating power	
<ul style="list-style-type: none"> at AC-3 <ul style="list-style-type: none"> at 400 V rated value 	5 500 W
<ul style="list-style-type: none"> at AC-3e <ul style="list-style-type: none"> at 400 V rated value 	5 500 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
<ul style="list-style-type: none"> at 50 Hz rated value 	230 V
<ul style="list-style-type: none"> at 60 Hz rated value 	230 V
apparent holding power of magnet coil at AC	5.7 VA
<ul style="list-style-type: none"> at 50 Hz 	5.7 VA
<ul style="list-style-type: none"> at 60 Hz 	4.4 VA
inductive power factor with the holding power of the coil	0.25
<ul style="list-style-type: none"> at 50 Hz 	0.25
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 480 V rated value 	11 A
<ul style="list-style-type: none"> at 600 V rated value 	11 A
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> for single-phase AC motor <ul style="list-style-type: none"> at 110/120 V rated value 	0.5 hp
<ul style="list-style-type: none"> for single-phase AC motor <ul style="list-style-type: none"> at 230 V rated value 	2 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 200/208 V rated value 	3 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 220/230 V rated value 	3 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> at 460/480 V rated value 	7.5 hp
<ul style="list-style-type: none"> for 3-phase AC motor <ul style="list-style-type: none"> 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 (I_q)	
<ul style="list-style-type: none"> at 400 V according to IEC 60947-4-1 rated value 	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	260 mm
width	45 mm
depth	155 mm
required spacing	
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards 	20 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> backwards 	0 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> upwards 	50 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side 	20 mm
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> downwards 	10 mm
<ul style="list-style-type: none"> for live parts <ul style="list-style-type: none"> 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
- for auxiliary and control circuit spring-loaded terminals

Safety related data

product function suitable for safety function Yes

Electrical Safety

touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Communication/ Protocol

protocol is supported

- PROFINET IO protocol No
- PROFIsafe protocol No

protocol is supported AS-Interface protocol No

Approvals Certificates

General Product Approval

For use in hazardous locations

Test Certificates



[Special Test Certificate](#)

Test Certificates

Maritime application

[Type Test Certificates/Test Report](#)



Maritime application

other

Railway

Environment



[Confirmation](#)

[Special Test Certificate](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1KH17-1AP0>

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, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1KH17-1AP0&lang=en

Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KH17-1AP0/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1KH17-1AP0&objecttype=14&gridview=view1>



last modified:

4/1/2025 ↻