# **SIEMENS**

## Product data sheet 3RA2110-1AE15-1BB4



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S00 1.1. . . 1.6A,
DC 24V SPRING-LOADED CONNECTION FOR RAILMOUNTING,
TYPE OF COORDINATION 2,
IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1)
1NO (CONTACTOR)

General technical data:		
Product brand name		SIRIUS
product designation		non-fused load feeders 3RA2
Design of the product		direct starter
Size of the load feeder		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-20 60
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	2.3
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		Q
according to DIN EN 61346-2		Q
Type of assignement		2

r			
	10,000,000		
	3RV2011-1AA20		
	3RT2015-2BB41		
	3RA2911-2AA00		
	mechanical		
	bimetal		
Α	1.1 1.6		
Communication:			
	No		
	No		
	No		
	No No		
	No		
	No		
	No No		
	A		

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current		
• at AC-1 / at 400 V / rated value	Α	1.6
• at AC-2 / at 400 V / rated value	Α	1.5
• at AC-3 / at 400 V / rated value	Α	1.5
at AC-4 / at 400 V / rated value	Α	1.5
Service power		
• at AC-2 / at 400 V / rated value	W	550
• at AC-3		
• at 400 V / rated value	W	550
• at 500 V / rated value	W	750
• at 690 V / rated value	W	1,100
at AC-4 / at 400 V / rated value	W	550
Off-load operating frequency	1/h	10,000
Frequency of operation		
at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750

250  DC  0  24 4
0 24
0 24
24
24
4
Yes
0
1
0
0
Yes
circuit-breakers
100,000
100,000
100,000
vertical
screw and snap-on mounting onto 35 mm standard mounting rail
45
197.6
97.1
0
0
20
30
0

• forwards	mm	0
• backwards	mm	0
• upwards	mm	20
• downwards	mm	10
• sidewards	mm	9
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	20
• downwards	mm	10
• sidewards	mm	9

Connections:		
Design of the electrical connection		
• for main current circuit	spring-loaded terminals	
for auxiliary and control current circuit	spring-loaded terminals	
Type of the connectable conductor cross-section		
• for main contacts		
• solid	2x (0.5 4 mm²)	
• stranded	2x (0.5 4 mm2)	
• finely stranded		
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>without conductor final cutting</li> </ul>	2x (0.5 2.5 mm²)	
• for AWG conductors / for main contacts	2x (20 12)	
for auxiliary contacts		
• solid	2x (0.5 4 mm²)	
• finely stranded		
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>without conductor final cutting</li> </ul>	2x (0.5 2.5 mm²)	
• for AWG conductors / for auxiliary contacts	2x (20 12)	

Certificates/approvals:		
Verification of suitability	CE / UL / CSA / CCC	
Varification of suitability / ATEX	No	

#### **General Product Approval**

For use in hazardous locations

**Test Certificates** 

**ROSTEST** 



 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$ 

Manufacturer

## **Shipping Approval**

other







Manufacturer

other

UL/CSA ratings		
yielded mechanical performance (hp)		
<ul> <li>for single-phase squirrel cage motors</li> </ul>		
• at 230 V / rated value	hp	0.1
<ul> <li>for three-phase squirrel cage motors</li> </ul>		
• at 460/480 V / rated value	hp	0.75
• at 575/600 V / rated value	hp	0.75
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	1.6
• at 600 V / rated value	Α	1.6
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

Safety:		
B10 value / with high demand rate		
• according to SN 31920		1,000,000
Failure rate (FIT value) / with low demand rate		
• according to SN 31920	FIT	150
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%	75
T1 value / for proof test interval or service life		
• according to IEC 61508	а	10
Protection against electrical shock		finger-safe

## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$ 

Industry Mall (Online ordering system)

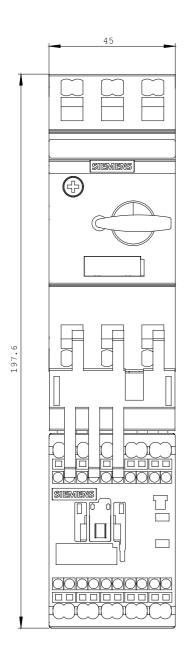
http://www.siemens.com/industrial-controls/mall

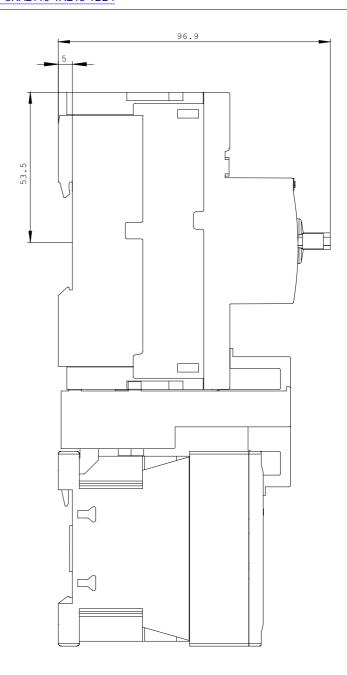
**CAx-Online-Generator** 

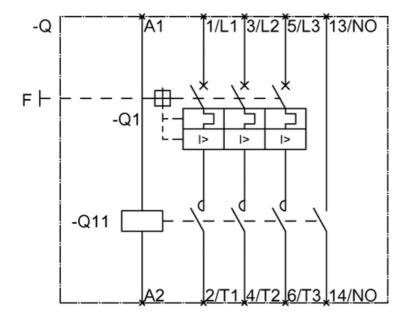
http://www.siemens.com/cax

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA2110-1AE15-1BB4







last change: Oct 24, 2011