Product data sheet 3RA2110-1CE15-1AP0



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S00 1.8. . .2.5A,
AC 230V 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		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q
according to DIN EN 61346-2		Q
Type of assignement		2

	10,000,000	
	10,000,000	
	3RV2011-1CA20	
	3RT2015-2AP01	
	3RA2911-2AA00	
	mechanical	
	bimetal	
А	1.8 2.5	
Communication:		
	No	
	No	
	3	
	0	
	3	
V	690	
Α	2.5	
Α	1.9	
Α	1.9	
Α	1.9	
	V A A A	

• at AC-2 / at 400 V / rated value

• at 400 V / rated value

• at 500 V / rated value

• at 690 V / rated value

Off-load operating frequency

Frequency of operation

• at AC-4 / at 400 V / rated value

• at AC-1 / according to IEC 60947-6-2 / maximum

• at AC-2 / according to IEC 60947-6-2 / maximum

• at AC-3

W

W

W

W

W

1/h

1/h

1/h

750

750

750

1,100

750

10,000

1,000

750

 at AC-3 / according to IEC 60947-6-2 / maximum 	1/h	750
 at AC-4 / according to IEC 60947-6-2 / maximum 	1/h	250
Control circuit:		
		AC
Type of voltage / of the controlled supply voltage	_	AC
Control supply voltage frequency		
• 1 / rated value	Hz —	50
Control supply voltage / 1		
at 50 Hz / for AC / rated value	V	230
at 60 Hz / for AC / rated value	V	230
Apparent holding power / of the solenoid / for AC	V-A	4.2
Inductive power factor / with the pull-in power of the coil		0.25
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		1
Number of change-over switches / for auxiliary contacts		0
Inputs/ Outputs:		
Number of digital inputs		0
Short-circuit:		
Product function / short circuit protection		Yes
Design of the short-circuit protection		circuit-breakers
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	Α	100,000
at 500 V / rated value	Α	100,000
• at 690 V / rated value		
	А	10,000
Installation/mounting/dimensions:	A	10,000
Installation/mounting/dimensions: Built in orientation	A	10,000 vertical
· · · · · · · · · · · · · · · · · · ·	A	
Built in orientation	A mm	vertical screw and snap-on mounting onto 35 mm standard
Built in orientation Type of mounting		vertical screw and snap-on mounting onto 35 mm standard mounting rail
Built in orientation Type of mounting Width	mm	vertical screw and snap-on mounting onto 35 mm standard mounting rail 45
Built in orientation Type of mounting Width Height Depth	mm mm	vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6
Built in orientation Type of mounting Width Height Depth	mm mm	vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6
Built in orientation Type of mounting Width Height Depth Distance, to be maintained, to the ranks assembly	mm mm mm	vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6 97.1
Built in orientation Type of mounting Width Height Depth Distance, to be maintained, to the ranks assembly • forwards	mm mm mm	vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6 97.1

• sidewards	mm	0
Distance, to be maintained, to earthed part		
• 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	
 with conductor end processing 	2x (0.5 2.5 mm²)
 without conductor final cutting 	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	
 with conductor end processing 	2x (0.5 2.5 mm²)
 without conductor final cutting 	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)		
 for single-phase squirrel cage motors 		
• at 230 V / rated value	hp	0.167
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.5
• at 220/230 V / rated value	hp	0.5
• at 460/480 V / rated value	hp	1
• at 575/600 V / rated value	hp	1.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	2.5
• at 600 V / rated value	Α	2.5
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
 with high demand rate / according to SN 31920 	%	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 Download center (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

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

CAx-Online-Generator

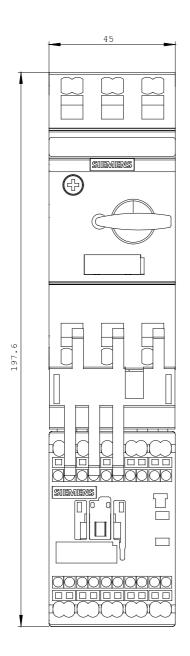
http://www.siemens.com/cax

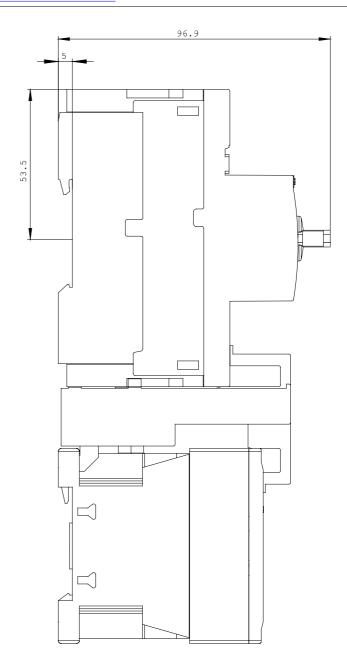
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

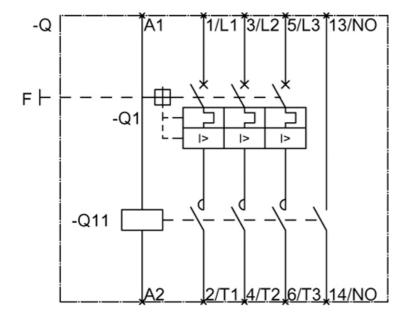
http://support.automation.siemens.com/WW/view/en/3RA2110-1CE15-1AP0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2110-1CE15-1AP0







last change: Oct 24, 2011