SIEMENS

Product data sheet

3RA2110-1EE15-1AP0



LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S00 2.8. . .4A, AC 230V SPRING-LOADED CONNECTION FOR RAIL-MOUNTING, 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

Mechanical operating cycles as operating time / of the contactor			
• typical		10,000,000	
Manufacturer article number			
 of the circuit-breakers included in the scope of supply 		<u>3RV2011-1EA20</u>	
 of the contactor included in the scope of supply 		<u>3RT2015-2AP01</u>	
 of the link module included in the scope of supply 		3RA2911-2AA00	
Design of the switching contact		mechanical	
Type of the motor protection	-	bimetal	
Adjustable response current			
• of the current-dependent overload release	А	2.8 4	
Communication:			
Product function / bus-communication		No	
Protocol / will be supported	-		
AS interface protocol		No	
PROFIBUS DP protocol		No	
PROFINET protocol		No	
Product extension / function module for communication		No	

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	А	4
• at AC-2 / at 400 V / rated value	А	3.6
• at AC-3 / at 400 V / rated value	А	3.6
• at AC-4 / at 400 V / rated value	А	3.6
Service power		
• at AC-2 / at 400 V / rated value	W	1,500
• at AC-3		
• at 400 V / rated value	W	1,500
• at 500 V / rated value	W	2,200
• at 690 V / rated value	W	3,000
• at AC-4 / at 400 V / rated value	W	1,500
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

 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:		
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	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	4,000
Installation/mounting/dimensions:		
Installation/mounting/dimensions: Built in orientation		vertical
	-	vertical screw and snap-on mounting onto 35 mm standard mounting rail
Built in orientation		screw and snap-on mounting onto 35 mm standard
Built in orientation Type of mounting	mm	screw and snap-on mounting onto 35 mm standard mounting rail
Built in orientation Type of mounting Width		screw and snap-on mounting onto 35 mm standard mounting rail 45
Built in orientation Type of mounting Width Height	mm	screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6
Built in orientation Type of mounting Width Height Depth	mm	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	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	screw and snap-on mounting onto 35 mm standard mounting rail 45 197.6 97.1 0

• 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

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) 2x (0.5 ... 2.5 mm²) • without conductor final cutting • 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	
	DEKRA EXAM, DMT	Manufacture	ī
Shipping Approval		other	
ABS PRS	RINA	Manufacture	<u>r</u> <u>other</u>
UL/CSA ratings			
yielded mechanical performance (hp)			
 for single-phase squirrel cage motors 			
• at 110/120 V / rated value		hp	0.125
• at 230 V / rated value		hp	0.333
 for three-phase squirrel cage motors 			
• at 200/208 V / rated value		hp	0.75
• at 220/230 V / rated value	• at 220/230 V / rated value		1
• at 460/480 V / rated value		hp	2
• at 575/600 V / rated value		hp	3
Operating current (FLA) / for three-phase so	uirrel cage motors		
• at 480 V / rated value		А	4
• at 600 V / rated value		А	4
Contact rating designation / for auxiliary co UL	ntacts / according to		A600 / Q600
Safety:			
B10 value / with high demand rate			
according to SN 31920			1,000,000
Failure rate (FIT value) / with low demand ra	te		
according to SN 31920		FIT	150
Proportion of dangerous failures			
• with low demand rate / according to SN 31	920	%	40
• with high demand rate / according to SN 3	1920	%	75
T1 value / for proof test interval or service li	fe		
according to IEC 61508		а	10
Protection against electrical shock			finger-safe

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

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

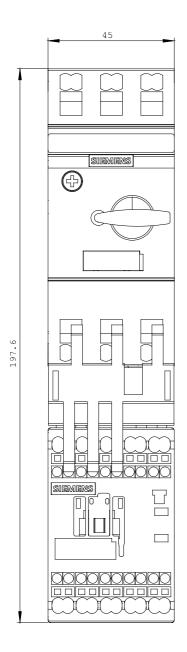
CAx-Online-Generator

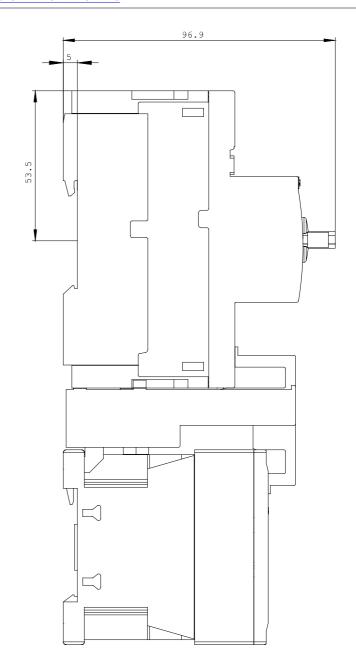
http://www.siemens.com/cax

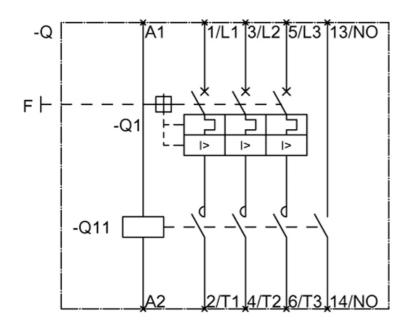
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA2110-1EE15-1AP0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2110-1EE15-1AP0







last change:

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