SIEMENS

Product data sheet 3RA2110-1BA15-1BB4



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S00 1.4. . . 2A,
DC 24V SCREW 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	or	
• typical		10,000,000
Manufacturer article number		
of the circuit-breakers included in the scope of supply		3RV2011-1BA10
of the contactor included in the scope of supply		3RT2015-1BB41
• of the link module included in the scope of supply		3RA1921-1DA00
Design of the switching contact		mechanical
Type of the motor protection		bimetal
Adjustable response current		
of the current-dependent overload release	А	1.4 2
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

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	2
• at AC-2 / at 400 V / rated value	Α	1.9
• at AC-3 / at 400 V / rated value	Α	1.9
• at AC-4 / at 400 V / rated value	Α	1.9
Service power		
• at AC-2 / at 400 V / rated value	W	750
• at AC-3		
• at 400 V / rated value	W	750
• at 500 V / rated value	W	750
• at 690 V / rated value	W	1,100
• at AC-4 / at 400 V / rated value	W	750
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

1/h	250
	DC
Hz	0
V	24
W	4
	Yes
	0
	1
	0
	0
	Yes
	circuit-breakers
Α	100,000
Α	100,000
Α	10,000
	vertical
	screw and snap-on mounting onto 35 mm standard mounting rail
mm	45
mm	167.2
mm	97.1
mm	0
mm	0
mm	20
mm	30
mm	0
nnn	A A A A A A A A A A A A A A A A A A A

• 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	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (0.75 2.5 mm²), 2x 4 mm²
• stranded	2x (0.75 2.5 mm2), 2x 4 mm2
• finely stranded	
 with conductor end processing 	2x (0.75 2.5 mm²)
• for AWG conductors / for main contacts	2x (18 14), 2x 12
for auxiliary contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
• finely stranded	
 with conductor end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG conductors / for auxiliary contacts	2x (20 16), 2x (18 14), 2x 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	0.125
 for three-phase squirrel cage motors 		
• at 460/480 V / rated value	hp	0.75
• at 575/600 V / rated value	hp	1
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	2
• at 600 V / rated value	Α	2
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 Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

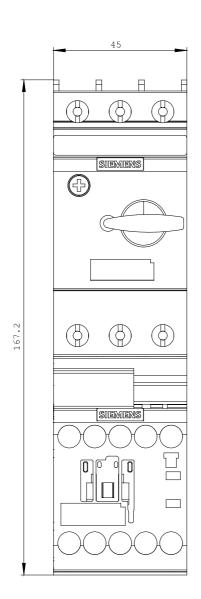
http://www.siemens.com/industrial-controls/mall

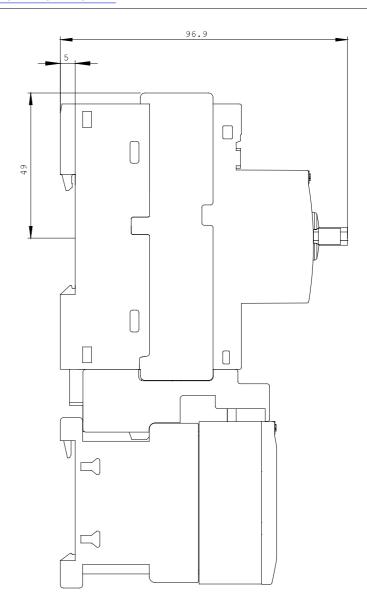
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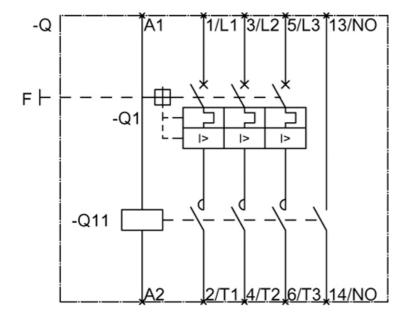
http://www.siemens.com/cax

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2110-1BA15-1BB4







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