

LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S00 9. . .12.5A, AC 230V SCREW CONNECTION FOR BUSBAR SYSTEMS 60MM TYPE OF COORDINATION 1, IQ = 150KA 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	3.5	
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		1	

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		3RV2011-1KA10
of the contactor included in the scope of supply		3RT2017-1AP01
of the link module included in the scope of supply		3RA1921-1DA00
of the busbar adapter included in the scope of supply		8US1251-5DS10
Design of the switching contact		mechanical
Type of the motor protection		bimetal
Adjustable response current		
of the current-dependent overload release	Α	9 12.5

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	Α	12
• at AC-2 / at 400 V / rated value	Α	11.5
• at AC-3 / at 400 V / rated value	Α	11.5
• at AC-4 / at 400 V / rated value	Α	11.5
Service power		
• at AC-2 / at 400 V / rated value	W	5,500
• at AC-3		
at 400 V / rated value	W	5,500
• at 500 V / rated value	W	5,500
at 690 V / rated value	W	7,500
• at AC-4 / at 400 V / rated value	W	5,500
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	5.7
Inductive power factor / with the pull-in power of the coil		0.28
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 (Icu)		
• at 400 V / rated value	Α	100,000
• at 500 V / rated value	Α	42,000
• at 690 V / rated value	Α	4,000
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		for snapping onto 60 mm busbar systems
Width	mm	45
Height	mm	200
Depth	mm	155.1
Center line spacing	mm	60
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
a haaluuarda	mm	0
• backwards	111111	

 sidewards Distance, to be maintained, to earthed part forwards backwards upwards downwards sidewards forwards mm 20 downwards sidewards mm pistance, to be maintained, conductive elements forwards backwards mm upwards upwards upwards downwards mm 20 downwards downwards sidewards mm 	• downwards	mm	30
 • forwards • backwards • upwards • downwards • sidewards • mm • sidewards mm 9 Distance, to be maintained, conductive elements • forwards • backwards • backwards • upwards • downwards • downwards mm 10 	• sidewards	mm	0
 backwards upwards downwards sidewards sidewards mm 9 Distance, to be maintained, conductive elements forwards backwards mm upwards downwards mm 20 downwards mm 10 	Distance, to be maintained, to earthed part		
 upwards downwards sidewards mm sidewards mm 9 Distance, to be maintained, conductive elements forwards backwards upwards downwards mm downwards mm 10 	• forwards	mm	0
 downwards sidewards mm 9 Distance, to be maintained, conductive elements forwards backwards upwards downwards mm 10 	• backwards	mm	0
 sidewards mm Distance, to be maintained, conductive elements forwards backwards upwards downwards mm 20 downwards mm 10 	• upwards	mm	20
Distance, to be maintained, conductive elements • forwards	• downwards	mm	10
 forwards backwards upwards downwards mm 0 mm 20 downwards mm 10 	• sidewards	mm	9
 backwards upwards downwards mm 20 mm 10 	Distance, to be maintained, conductive elements		
 upwards downwards mm 10 	• forwards	mm	0
• downwards mm 10	• backwards	mm	0
	• upwards	mm	20
• sidewards mm 9	• 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)
• stranded	2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x (1 4 mm2)
• finely stranded	
 with conductor end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG conductors / for main contacts	2x (20 16), 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	С	CE / UL / CSA / CCC
Varification of suitability / ATEX	N	lo

General Product Approval

For use in hazardous locations

Test Certificates

ROSTEST



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

Manufacturer

Shipping Approval









Manufacturer

other

UL/CSA ratings			
yielded mechanical performance (hp)			
• for single-phase squirrel cage motors			
• at 110/120 V / rated value	hp	0.5	
• at 230 V / rated value	hp	2	
• for three-phase squirrel cage motors			
• at 200/208 V / rated value	hp	3	
• at 220/230 V / rated value	hp	3	
• at 460/480 V / rated value	hp	7.5	
• at 575/600 V / rated value	hp	10	
Operating current (FLA) / for three-phase squirrel cage motors			
• at 480 V / rated value	Α	11	
at 600 V / rated value	Α	11	
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,...)

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

Industry Mall (Online ordering system)

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

CAx-Online-Generator

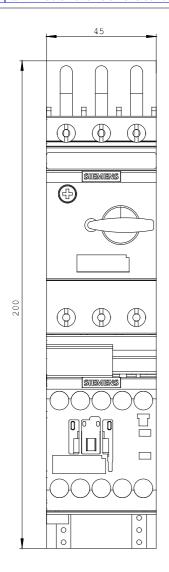
http://www.siemens.com/cax

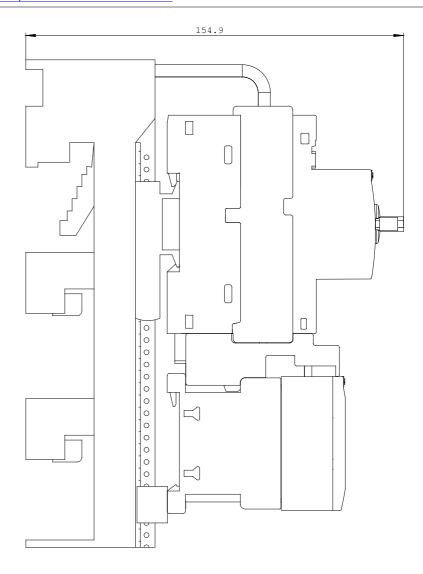
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

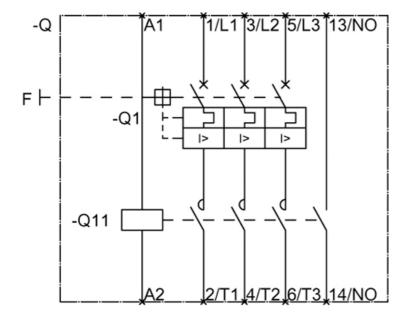
http://support.automation.siemens.com/WW/view/en/3RA2110-1KD17-1AP0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2110-1KD17-1AP0







last change: Oct 24, 2011