SIEMENS

Product data sheet

3RA2220-1GB24-0BB4



LOAD FEEDER FUSELESS REVERSING DUTY, AC 400V, SZ S0, 4.5. . .6.3A, DC 24V SCREW CONNECTION FOR RAIL-MOUNTING, W. DIN RAIL ADAPTER TYPE OF COORDINATION 2, IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1) 1NO+1NC (CONTACTOR)

General technical data:			
Product brand name		SIRIUS	
product designation		non-fused load feeders 3RA2	
Design of the product		reversing starter	
Size of the load feeder		S0	
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 standard mounting rail adapter included in the scope of supply 		3RA2922-1AA00
 of the circuit-breakers included in the scope of supply 		3RV2011-1GA10
 of the contactor included in the scope of supply 		3RT2024-1BB40
 of the link module included in the scope of supply 		3RA2921-1BA00
 of the RH applied assembly kit 		3RA2923-1BB1
Design of the switching contact	-	mechanical
Type of the motor protection		bimetal
Adjustable response current	-	
 of the current-dependent overload release 	А	4.5 6.3
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	6.3
• at AC-2 / at 400 V / rated value	А	4.9
• at AC-3 / at 400 V / rated value	А	4.9
• at AC-4 / at 400 V / rated value	А	4.9
Service power		
• at AC-2 / at 400 V / rated value	W	2,200
• at AC-3		
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	3,000
• at 690 V / rated value	W	4,000
• at AC-4 / at 400 V / rated value	W	2,200
Off-load operating frequency	1/h	1,500
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	1,000
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	300

Control circuit:				
Type of voltage / of the controlled supply voltage DC				
Control supply voltage frequency				
• 1 / rated value	Hz	0		
Control supply voltage / 1				
• for DC / rated value	V	24		
Holding power / of the solenoid / for DC	W	5.9		

Auxiliary circuit:			
Product extension / auxiliary switch	Yes		
Number of NC contacts / for auxiliary contacts	1		
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	А	100,000		
• at 500 V / rated value	А	100,000		
• at 690 V / rated value	А	4,000		

Installation/mounting/dimensions:				
Built in orientation		vertical		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail		
Width	mm	90		
Height	mm	265		
Depth	mm	129.9		
Distance, to be maintained, to the ranks assembly				
• forwards	mm	10		
backwards	mm	0		
• upwards	mm	30		
downwards	mm	30		

• sidewards	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	10
backwards	mm	0
• upwards	mm	30
downwards	mm	10
• sidewards	mm	9
Distance, to be maintained, conductive elements		
• forwards	mm	10
backwards	mm	0
• upwards	mm	30
downwards	mm	10
• sidewards	mm	9
Connections:		
Design of the electrical connection		

Design of the electrical conflection		
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 (1 2.5 mm²), 2x (2.5 10 mm²)	
• stranded	2x (1.0 2.5 mm2), 2x (2.5 10 mm2)	
finely stranded		
 with conductor end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
 for AWG conductors / for main contacts 	2 x (16 14), 2x (14 8)	
for auxiliary contacts		
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 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 14)	
Certificates/approvals:		
Verification of suitability	CE / UL / CSA / CCC	
Varification of suitability / ATEX	No	

General Product Ap	proval	For use in hazardous locations	Test Certificates	
ROSTEST		DEKRA EXAM, DMT	Manufacturer	
Shipping Approval			other	
ABS	PRS	RINA	<u>Manufacturer</u>	other

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Salety:		
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	250
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

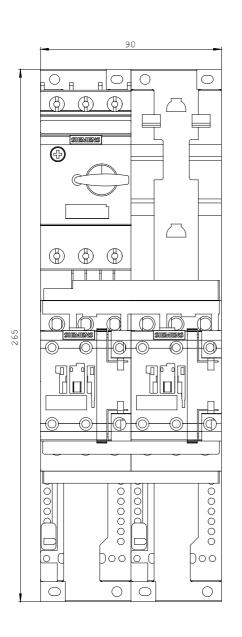
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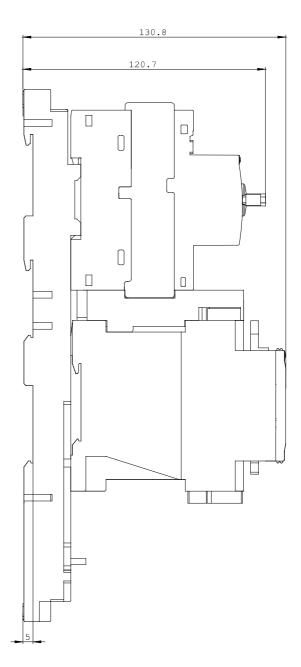
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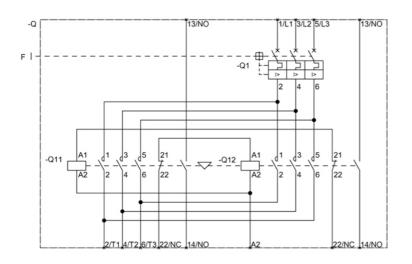
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA2220-1GB24-0BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2220-1GB24-0BB4







last change:

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