SIEMENS

Product data sheet

3RA2220-1GD24-0AP0



LOAD FEEDER FUSELESS REVERSING DUTY, AC 400V, SZ S0, 4.5. . .6.3A, AC 230V SCREW CONNECTION FOR BUSBAR SYSTEMS 60MM 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 contacto		
	"	10,000,000
• typical Manufacturer article number		10,000,000
of the circuit-breakers included in the scope of supply		<u>3RV2011-1GA10</u>
 of the contactor included in the scope of supply 		<u>3RT2024-1AP00</u>
 of the RS applied assembly kit 		8US1250-5AT10
 of the link module included in the scope of supply 		3RA2921-1AA00
 of the busbar adapter included in the scope of supply 		8US1251-5NT10
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:		
Main circuit: Number of poles / for main current circuit		3
	_	3 0
Number of poles / for main current circuit		
Number of poles / for main current circuit Number of NC contacts / for main contacts		0
Number of poles / for main current circuit Number of NC contacts / for main contacts Number of NO contacts / for main contacts	V	0 3
Number of poles / for main current circuit Number of NC contacts / for main contacts Number of NO contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum	V	0 3

Number of NU 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	5,000
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	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		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	8.5
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	1
Number of NO contacts / for auxiliary contacts	1
Number of change-over switches / for auxiliary contacts	0

Inputs/ Outputs:

Number of digital inputs

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		

0

Installation/mounting/dimensions:				
Built in orientation		vertical		
Type of mounting		for snapping onto 60 mm busbar systems		
Width	mm	90		
Height	mm	260		
Depth	mm	155.1		
Center line spacing	mm	60		
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		
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

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

 - - -			
	2113	-11.	
		.	

Salely.		
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

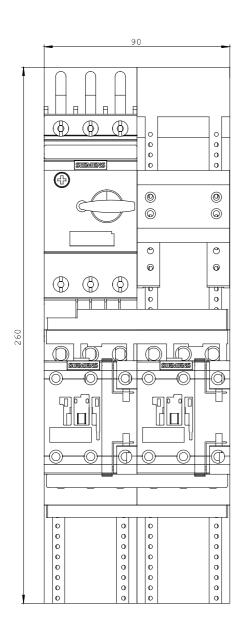
CAx-Online-Generator

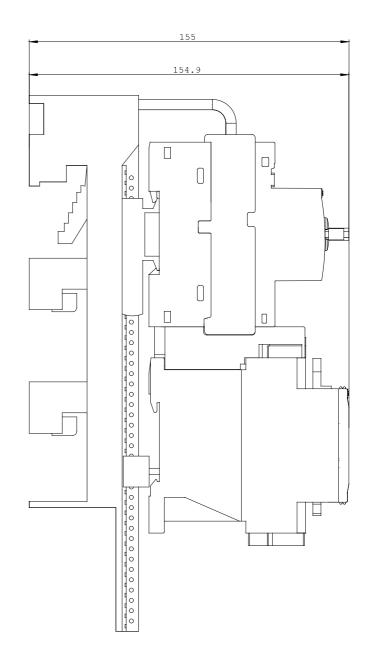
http://www.siemens.com/cax

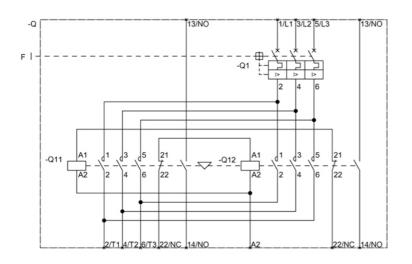
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA2220-1GD24-0AP0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2220-1GD24-0AP0







last change:

Oct 24, 2011