SIEMENS

Product data sheet

3RA2120-4DE27-0AP0



LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S0, 20. . .25A, AC 230V SPRING-LOADED CONNECTION FOR RAIL-MOUNTING, 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		direct 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	4.3
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>3RV2021-4DA20</u>
 of the contactor included in the scope of supply 		<u>3RT2027-2AP00</u>
 of the link module included in the scope of supply 		3RA2921-2AA00
Design of the switching contact		mechanical
Type of the motor protection		bimetal
Adjustable response current		
• of the current-dependent overload release	А	20 25
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	25		
• at AC-2 / at 400 V / rated value	А	22		
• at AC-3 / at 400 V / rated value	А	22		
• at AC-4 / at 400 V / rated value	А	22		
Service power				
• at AC-2 / at 400 V / rated value	W	11,000		
• at AC-3				
• at 400 V / rated value	W	11,000		
• at 500 V / rated value	W	15,000		
• at 690 V / rated value	W	22,000		
• at AC-4 / at 400 V / rated value	W	11,000		
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	9.8
Inductive power factor / with the pull-in power of the coil		0.27
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 (lcu)		
• at 400 V / rated value	А	25,000
• at 500 V / rated value		
	A	5,000
at 690 V / rated value	A	5,000 2,000
at 690 V / rated value Installation/mounting/dimensions:		
Installation/mounting/dimensions:		2,000
Installation/mounting/dimensions: Built in orientation		2,000 vertical screw and snap-on mounting onto 35 mm standard
Installation/mounting/dimensions: Built in orientation Type of mounting	A	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail
Installation/mounting/dimensions: Built in orientation Type of mounting Width	A	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail 45
Installation/mounting/dimensions: Built in orientation Type of mounting Width Height	A mm mm	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 242.6
Installation/mounting/dimensions: Built in orientation Type of mounting Width Height Depth	A mm mm	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 242.6
Installation/mounting/dimensions: Built in orientation Type of mounting Width Height Depth Distance, to be maintained, to the ranks assembly	A mm mm mm	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 242.6 106.9
Installation/mounting/dimensions: Built in orientation Type of mounting Width Height Depth Distance, to be maintained, to the ranks assembly • forwards	A mm mm mm	2,000 vertical screw and snap-on mounting onto 35 mm standard mounting rail 45 242.6 106.9

• 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

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 (1 ... 10 mm²) stranded 2x (1.0 ... 10 mm2) finely stranded • with conductor end processing 2x (1 ... 6 mm²) • without conductor final cutting 2x (1 ... 6 mm²) • for AWG conductors / for main contacts 2x (18 ... 8) · for auxiliary contacts solid 2x (0.5 ... 2.5 mm²) finely stranded • with conductor end processing 2x (0.5 ... 1.5 mm²) • without conductor final cutting 2x (0.5 ... 1.5 mm²) • for AWG conductors / for auxiliary contacts 2x (20 ... 14) Certificates/approvals: Verification of suitability

vernication 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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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	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

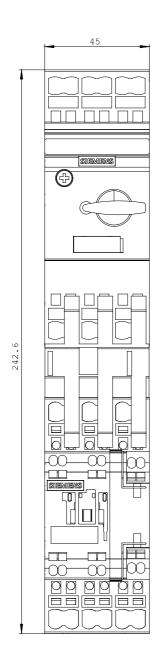
CAx-Online-Generator

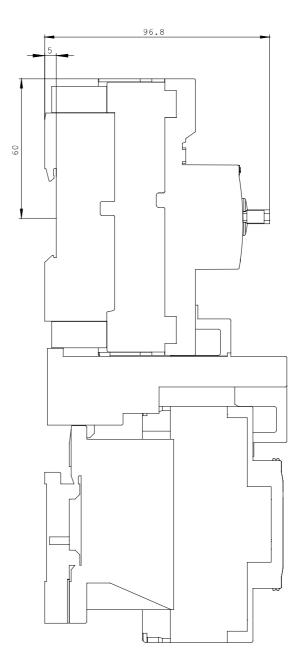
http://www.siemens.com/cax

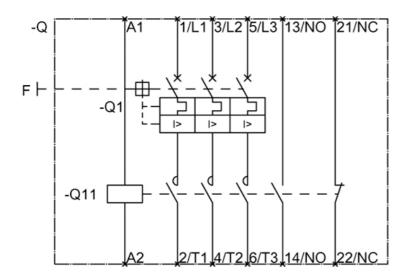
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA2120-4DE27-0AP0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2120-4DE27-0AP0







last change:

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