## SIEMENS

## Data sheet

## 3RA2120-0GD23-0AP6



Fuseless motor starter Direct start 600VAC Size S0 0.45-0.63A 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)

product brand name	SIRIUS	
product designation	non-fused motor starter 3RA2	
design of the product	direct starter	
manufacturer's article number		
<ul> <li>of the supplied contactor</li> </ul>	3RT2023-1AP60	
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-0GA10</u>	
<ul> <li>of the supplied busbar adapter</li> </ul>	8US1251-5NT10	
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>	
General technical data		
size of the circuit-breaker	S00	
size of load feeder	S0	
product extension auxiliary switch	Yes	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	6g / 11 ms	
mechanical service life (switching cycles) of contactor typical	10 000 000	
type of assignment	2	
Ambient conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
<ul> <li>during storage</li> </ul>	-50 +80 °C	
during transport	-55 +80 °C	
Main circuit		
number of poles for main current circuit	3	
design of the switching contact	electromechanical	
adjustable current response value current of the current-dependent overload release	0.45 0.63 A	
operating voltage		
<ul> <li>rated value</li> </ul>	690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
operating frequency rated value	50 60 Hz	
operational current at AC-3 at 400 V rated value	0.6 A	
operating power at AC-3		
<ul> <li>at 400 V rated value</li> </ul>	180 W	
• at 500 V rated value	180 W	
• at 690 V rated value	250 W	
Control circuit/ Control		

control supply voltage at AC				
<ul> <li>at 50 Hz rated value</li> </ul>	22	) V		
<ul> <li>at 50 Hz rated value</li> </ul>		6 242 V		
<ul> <li>at 60 Hz rated value</li> </ul>	24	) V		
at 60 Hz rated value		2 264 V		
apparent holding power of magnet coil at A	7.2	VA		
inductive power factor with the holding pow coil	er of the 0.2	8		
Auxiliary circuit				
number of NC contacts for auxiliary contact	<b>s</b> 1			
number of NO contacts for auxiliary contact	s 1			
Protective and monitoring functions				
trip class	CL	ASS 10		
design of the overload release		rmal (bimetallic)		
response value current of instantaneous short-		9 A		
unit		• • •		
Short-circuit protection				
product function short circuit protection	Ye	S		
design of the short-circuit trip	ma	gnetic		
conditional short-circuit current (lq)				
• at 400 V according to IEC 60947-4-1 rate	d value 15	3 000 A		
Installation/ mounting/ dimensions				
mounting position	Ve	tical		
fastening method		snapping onto 60 mm b	usbar systems	
height		) mm		
width		mm		
depth		5 mm		
required spacing	10			
for grounded parts				
— forwards	10	mm		
— backwards		nm		
— upwards		mm		
— at the side		nm		
— downwards		mm		
<ul> <li>for live parts</li> </ul>	10			
— forwards	10	mm		
— backwards		nm		
		mm		
— upwards — downwards				
— at the side		10 mm 9 mm		
	91			
Connections/ Terminals				
type of electrical connection for main current cir		ew-type terminals		
type of connectable conductor cross-section		10		
for main contacts stranded		1 10 mm², 2x (2.5 6 mm²)		
at AWG cables for main contacts		2x (16 12), 2x (14 8)		
connectable conductor cross-section for main c finely stranded with core end processing	ontacts 1.	. 6 mm²		
Safety related data				
B10 value with high demand rate according to S		1 000 000		
proportion of dangerous failures with high demand rate according to SN 31920		73 %		
protection class IP on the front according to 60529	IEC IP:	20		
touch protection on the front according to I	<b>C 60529</b> fin	ger-safe, for vertical cont	tact from the front	
Certificates/ approvals				
General Product Approval	For use in hazard ous locations	- Declaration of Conformity	other	









**Confirmation** 

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-0GD23-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-0GD23-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0GD23-0AP6

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-0GD23-0AP6&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0GD23-0AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-0GD23-0AP6&objecttype=14&gridview=view1

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