## 3RA2120-1CD23-0AK6

**Data sheet** 



Fuseless motor starter Direct start 600VAC Size S0 1.8-2.5A 110/120VAC 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>	3RT2023-1AK60			
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1CA10			
<ul> <li>of the supplied busbar adapter</li> </ul>	8US1251-5NT10			
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1AA00			
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 acc. 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				
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C			
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C			
<ul> <li>ambient temperature during transport</li> </ul>	-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	1.8 2.5 A			
operating voltage rated value	690 V			
<ul> <li>operating voltage 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	1.9 A			
operating power at AC-3				
<ul> <li>at 400 V rated value</li> </ul>	750 W			
<ul> <li>at 500 V rated value</li> </ul>	1 100 W			
Control circuit/ Control				
control supply voltage at AC				

110 V
88 121 V
120 V
96 132 V
7.2 V·A
0.28
1
1
CLASS 10
thermal (bimetallic)
32.5 A
2.15 A
2.24 A
0.17 hp
0.5 hp
0.5 hp
1 hp
1.5 hp
Yes
165
magnetic
magnetic
magnetic
magnetic 153 000 A
magnetic  153 000 A  vertical
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems  260 mm  45 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems  260 mm  45 mm  155 mm  10 mm 0 mm 30 mm 9 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm  45 mm  155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems  260 mm  45 mm  155 mm  10 mm  0 mm  30 mm  10 mm  10 mm  10 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems  260 mm  45 mm  155 mm  10 mm  0 mm  30 mm  10 mm  10 mm  10 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems  260 mm  45 mm  155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm 9 mm 10 mm 9 mm
magnetic  153 000 A  vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm
vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm sorew-type terminals
vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 50 mm 10 mm
vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm sorew-type terminals
vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm  10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 50 mm 10 mm

Safety related data					
B10 value with high demand rate acc. to SN 31920			1 000	1 000 000	
proportion of dangerous failures with high demand rate acc. to SN 31920		73 %			
protection class IP on the front acc. to IEC 60529		IP20			
touch protection on the front acc. to IEC 60529		finge	finger-safe, for vertical contact from the front		
Certificates/ approvals					
General Product Approval	For use in hazardous 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=3RA2120-1CD23-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1CD23-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1CD23-0AK6

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

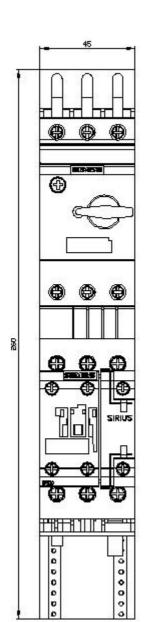
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-1CD23-0AK6&lang=en

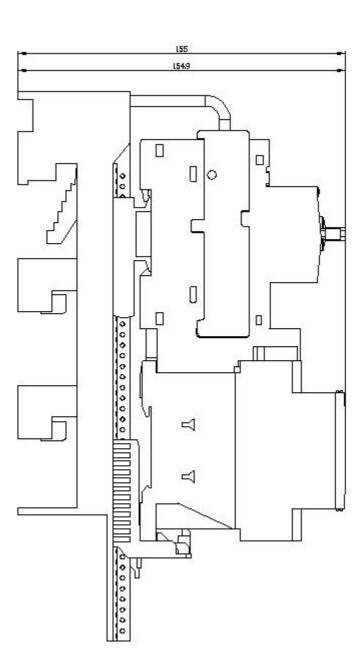
Characteristic: Tripping characteristics, I2t, Let-through current

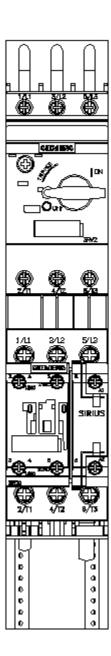
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1CD23-0AK6/char

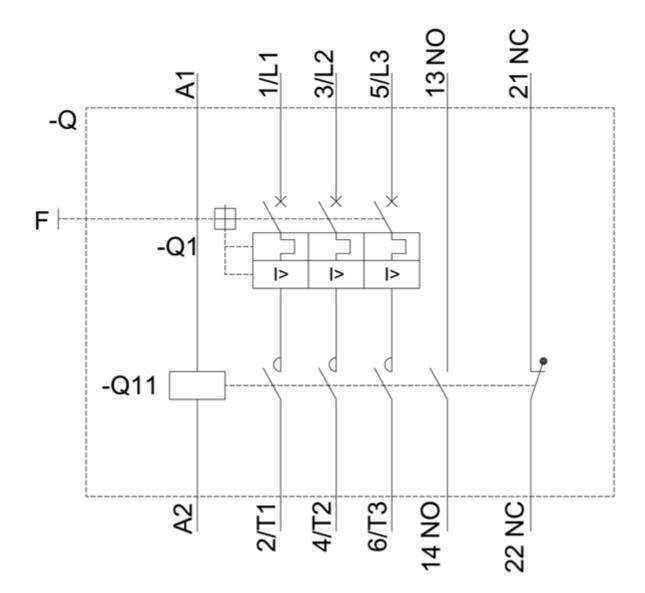
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1CD23-0AK6&objecttype=14&gridview=view1









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