## 3RA2120-1BA23-0AK6

**Data sheet** 



Fuseless motor starter Direct start 600VAC Size S0 1.4-2A 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)

SIRIUS	
non-fused motor starter 3RA2	
direct starter	
3RT2023-1AK60	
3RV2011-1BA10	
3RA2921-1AA00	
General technical data	
S00	
S0	
Yes	
690 V	
3	
6 kV	
6g / 11 ms	
10 000 000	
2	
Lead - 7439-92-1	
0.76 kg	
-20 +60 °C	
-50 +80 °C	
-55 +80 °C	
Main circuit	
3	
electromechanical	
1.4 2 A	
690 V	
000 V	
690 V	
690 V	
690 V 50 60 Hz	
690 V 50 60 Hz	
690 V 50 60 Hz 1.9 A	
690 V 50 60 Hz 1.9 A	
690 V 50 60 Hz 1.9 A 750 W 750 W	

at 50 Hz rated value	110 V
● at 50 Hz rated value	88 121 V
<ul> <li>at 60 Hz rated value</li> </ul>	120 V
at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	26 A
UL/CSA ratings	2011
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1.63 A
at 400 V rated value     at 600 V rated value	1.72 A
	1.72 A
yielded mechanical performance [hp]  • for single-phase AC motor	
at 230 V rated value	0.13 hp
	0.13 hp
• for 3-phase AC motor	0.75 ha
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	1 hp
Short-circuit protection	V
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
at 400 V according to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	193.1 mm
width	45 mm
depth	97.1 mm
required spacing	
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— at the side	9 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 mm²
Safety related data	
proportion of dangerous failures with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	











Confirmation

## **Environment**

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RA2120-1BA23-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1BA23-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1BA23-0AK6

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

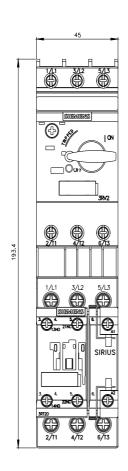
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-1BA23-0AK6&lang=en

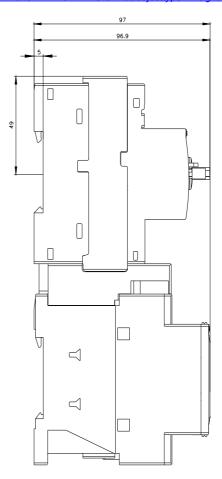
Characteristic: Tripping characteristics, I²t, Let-through current

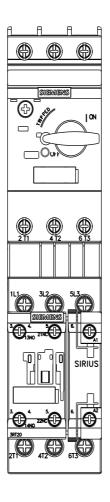
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1BA23-0AK6/char

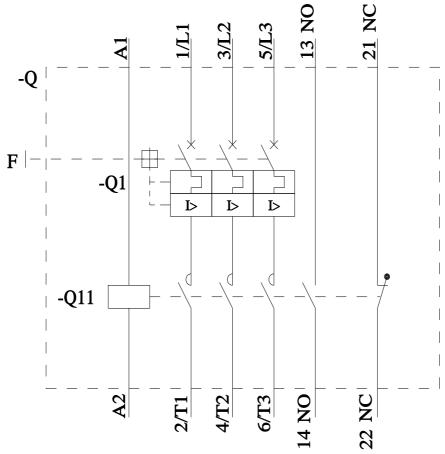
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1BA23-0AK6&objecttype=14&gridview=view1









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