Data sheet

3RA2120-1BD23-0AK6



Fuseless motor starter Direct start 600VAC Size S0 1.4-2A 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)

SIRIUS
non-fused motor starter 3RA2
direct starter
3RT2023-1AK60
3RV2011-1BA10
<u>8US1251-5NT10</u>
3RA2921-1AA00
S00
SO
Yes
690 V
3
6 kV
6g / 11 ms
10 000 000
2
Lead - 7439-92-1
1.06 kg
-20 +60 °C
-50 +80 °C
-55 +80 °C
3
electromechanical
1.4 2 A
690 V
690 V
50 60 Hz
50 60 Hz 1.9 A
1.9 A
1.9 A 750 W

control supply voltage at AC	
• at 50 Hz rated value	110 V
at 50 Hz rated value	88 121 V
• at 60 Hz rated value	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	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1.63 A
at 600 V rated value	1.72 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	0.13 hp
 for 3-phase AC motor 	
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	1 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450,000 A
at 400 V according to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
mounting position fastening method	for snapping onto 60 mm busbar systems
mounting position fastening method height	for snapping onto 60 mm busbar systems 260 mm
mounting position fastening method height width	for snapping onto 60 mm busbar systems 260 mm 45 mm
mounting position fastening method height width depth	for snapping onto 60 mm busbar systems 260 mm
mounting position fastening method height width depth required spacing	for snapping onto 60 mm busbar systems 260 mm 45 mm
mounting position fastening method height width depth required spacing • for grounded parts	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — backwards — backwards	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
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — upwards	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
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards • for love parts — forwards — backwards — backwards — upwards — downwards	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
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — downwards — at the side	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
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — backwards — backwards — at the side — downwards — torwards — backwards — backwards — backwards — backwards — at the side Connections/ Terminals	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 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — a the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts	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 50 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — torwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely	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 50 mm 10 mm 50 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing	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 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — to parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 Electrical Safety	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 11 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — to parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	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 11 mm 11 mm 12 mm 13 mm 14 mm 15 mm 15 mm 15 mm 16 mm 17 mm 18 mm 19 mm 19 mm 10 mm

General Product Approval

For use in hazardous locations

other





Confirmation





Confirmation

Environment

Environmental Confirmations

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1BD23-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1BD23-0AK6

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

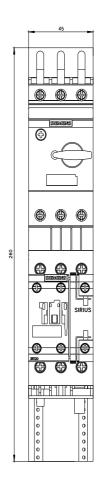
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1BD23-0AK6&lang=en

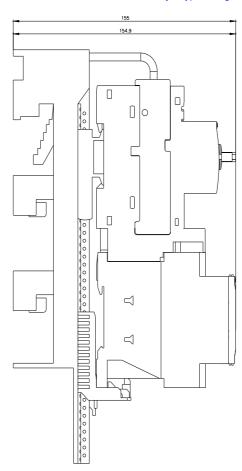
Characteristic: Tripping characteristics, I2t, Let-through current

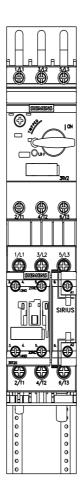
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1BD23-0AK6/char}$

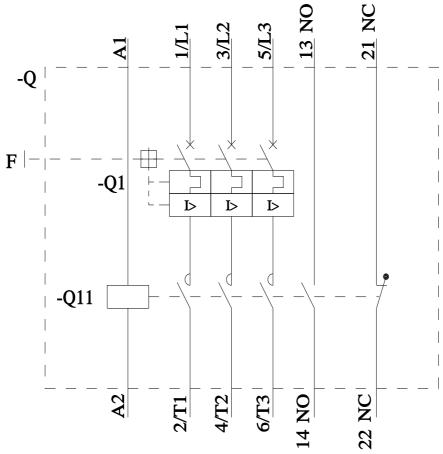
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1BD23-0AK6&objecttype=14&gridview=view1









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3/11/2024

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Authorized Distributor

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