SIEMENS

Data sheet

3RA2120-1ED23-0AP6



Fuseless motor starter Direct start 600VAC Size S0 2.8-4A 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)

	RIUS
design of the product dir	on-fused motor starter 3RA2
	rect starter
manufacturer's article number	
• of the supplied contactor 3F	RT2023-1AP60
• of the supplied circuit-breakers	RV2011-1EA10
• of the supplied busbar adapter 8L	<u>JS1251-5NT10</u>
• of the supplied link module 3F	RA2921-1AA00
General technical data	
size of the circuit-breaker SC	00
size of load feeder SC	
product extension auxiliary switch	es
insulation voltage with degree of pollution 3 at AC rated value 69	90 V
degree of pollution 3	
surge voltage resistance rated value 6	kV
shock resistance according to IEC 60068-2-27 69	g / 11 ms
mechanical service life (operating cycles) of contactor typical	000 000
type of assignment 2	
Weight 1.0	06 kg
Ambient conditions	
ambient temperature	
• during operation -2	0 +60 °C
• during storage -5	0 +80 °C
• during transport -5	5 +80 °C
Main circuit	
number of poles for main current circuit 3	
design of the switching contact ele	ectromechanical
adjustable current response value current of the current- dependent overload release	8 4 A
operating voltage	
• rated value 69	90 V
	90 V
• at AC-3 rated value maximum 69) 60 Hz
• at AC-3 rated value maximum 69 operating frequency rated value 50) 60 Hz 6 A
• at AC-3 rated value maximum 69 operating frequency rated value 50	
 at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 	
 at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value 1 section 1 	6 A
 at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value 1 section 1 section 1 section 2 section 2 section 2 section 2 section 3 section 2 se	6 A 500 W
 at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value 2 2 	6 A 500 W

-t-50 Htd	470 0401/
• at 50 Hz rated value	176 242 V
• at 60 Hz rated value	240 V
• at 60 Hz rated value	192 264 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	52 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	3.95 A
at 600 V rated value	4 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.13 hp
— at 230 V rated value	0.33 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.75 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 hp
— at 575/600 V rated value	3 hp
Short-circuit protection	
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	
Installation/ mounting/ dimensions mounting position	vertical
	vertical for snapping onto 60 mm busbar systems
mounting position	
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 45 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 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 — forwards — 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 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 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 — upwards — at the side — downwards — forwards — forwards — backwards — backwards — 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 10 mm 10 mm 0 mm 30 mm
mounting position fastening method height width depth required spacing	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 9 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 — upwards — 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 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 — 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	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 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 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 110 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 sparts — 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	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 12 mm 13 mm 14 mm 15 mm 15 mm 15 mm 16 mm 17 mm 18 mm 19 mm 19 mm 10 mm

Approvals Certificates

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-1ED23-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1ED23-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1ED23-0AP6

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

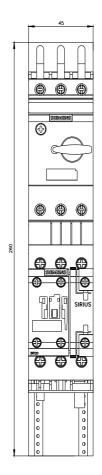
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1ED23-0AP6&lang=en

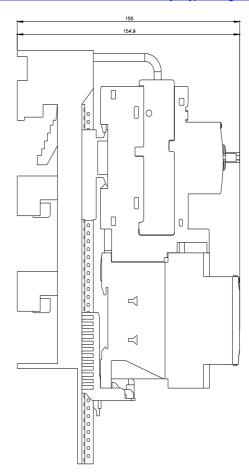
Characteristic: Tripping characteristics, I2t, Let-through current

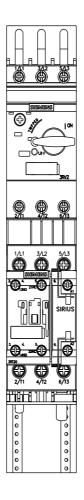
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1ED23-0AP6/char

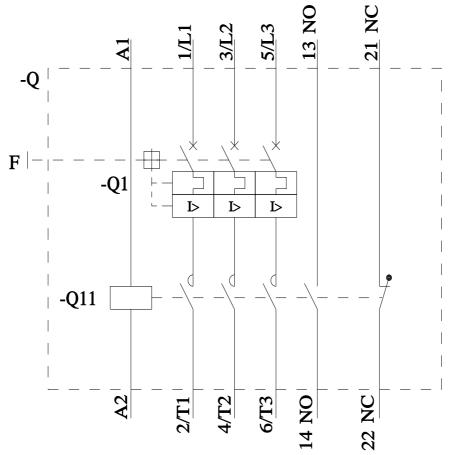
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1ED23-0AP6&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RA21201ED230AP6