SIEMENS

Data sheet

3RA2125-0GD23-0AK6

Fuseless motor starter Direct start 600VAC Size S0 0.45-0.63A

	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 (MSP) 1NO+1NC (contactor)
Product brand name	SIRIUS
Product designation	non-fused motor starter 3RA2
Design of the product	direct starter
Manufacturer's article number	
 of the supplied contactor 	3RT2023-1AK60
 of the supplied circuit-breakers 	3RV2011-0GA15
 of the supplied busbar adapter 	8US1251-5NT10
 of the supplied link module 	3RA2921-1AA00

S00
S0
Yes
690 V
3
6 kV
IP20
IP00
6g / 11 ms
10 000 000
2

Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	electromechanical
Adjustable pick-up value current of the current- dependent overload release	0.45 0.63 A
•	
Operating voltage	
• rated value	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz

Operating current	
● at AC-3	
— at 400 V rated value	0.6 A
Operating power	
• at AC-3	
— at 400 V rated value	180 W
— at 500 V rated value	180 W
— at 690 V rated value	250 W
Control circuit/ Control	
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 V·A
Inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	2
Number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	
Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)
Response value current	
• of instantaneous short-circuit trip unit	8.19 A
Short-circuit protection	
Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (Iq)	
• at 400 V acc. to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
Mounting position	vertical
Mounting type	for snapping onto 60 mm busbar systems
Height	260 mm
Width	45 mm
Depth	155 mm
Required spacing	
• for grounded parts	40
— forwards — Backwards	10 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)
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
Connectable conductor cross-section for main contacts	
• finely stranded with core end processing	1 6 mm²

Safety	related	l data

B10 value

• with high demand rate acc. to SN 31920 1 000 000

Proportion of dangerous failures

• with high demand rate acc. to SN 31920 73 %

Certificates/ approvals

General Product	For use in hazard-	Declaration of Con-	other
Approval	ous locations	formity	







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=3RA2125-0GD23-0AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2125-0GD23-0AK6}\\$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-0GD23-0AK6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-0GD23-0AK6&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-0GD23-0AK6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-0GD23-0AK6&objecttype=14&gridview=view1

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