SIEMENS

Data sheet

3RA2125-1ED23-0BB4

	Fuseless motor starter Direct start 600VAC Size S0 2.8-4A 24V DC 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	3RT2023-1BB40
of the supplied circuit-breakers	3RV2011-1EA15
of the supplied busbar adapter	8US1251-5NT10
of the supplied link module	3RA2921-1BA00
General technical data	
size of the circuit-breaker	\$00
size of load feeder	\$0
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 according to IEC 60068-2-27	6g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of assignment	2
Weight	1.25 kg
Ambient conditions	
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of poles for main current circuit design of the switching contact	3 electromechanical
design of the switching contact adjustable current response value current of the current-	electromechanical
design of the switching contact adjustable current response value current of the current- dependent overload release	electromechanical
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage	electromechanical 2.8 4 A
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value	electromechanical 2.8 4 A 690 V
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum	electromechanical 2.8 4 A 690 V 690 V
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A
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design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W
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design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit number of NC contacts for auxiliary contacts	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W
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design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions trip class	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W 24 V 5.9 W
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions trip class design of the overload release	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W 24 V 5.9 W CLASS 10 thermal (bimetallic)
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • 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 Control circuit/ Control control supply voltage at DC rated value holding power of magnet coil at DC Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit	electromechanical 2.8 4 A 690 V 690 V 50 60 Hz 3.6 A 1 500 W 2 200 W 24 V 5.9 W CLASS 10 thermal (bimetallic)

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			
mounting position	vertical		
fastening method	for snapping onto 60 mm busb	ar systems	
height	260 mm		
width	45 mm		
depth	165 mm		
required spacing			
 for grounded parts 			
— 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			
General Product Approval		For use in hazard- ous locations	other





Confirmation





Confirmation

Dangerous goods

Environment

<u>Transport Information</u>

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=3RA2125-1ED23-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-1ED23-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1ED23-0BB4

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-1ED23-0BB4&lang=en

Characteristic: Tripping characteristics, I^2t , Let-through current

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1ED23-0BB4/char}$

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-1ED23-0BB4&objecttype=14&gridview=view1

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