

Fuseless motor starter Reversing operation 600VAC Size S0 0.9-1.25A 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 (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
• of the supplied contactor	<a href="#">3RT2023-1BB40</a>
• of the supplied circuit-breakers	<a href="#">3RV2011-0KA15</a>
• of the supplied RS assembly kit	<a href="#">3RA2923-1DB1</a>
• of the supplied busbar adapter	<a href="#">8US1251-5NT10</a>
• of the supplied link module	<a href="#">3RA2921-1BA00</a>
<b>General technical data</b>	
size of the circuit-breaker	S00
size of load feeder	S0
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
Substance Prohibitance (Date)	03/01/2017
Weight	2.14 kg
<b>Ambient conditions</b>	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-55 ... +80 °C
<b>Main circuit</b>	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current-dependent overload release	0.9 ... 1.25 A
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	1.1 A
operating power at AC-3	
• at 400 V rated value	370 W
• at 500 V rated value	550 W
• at 690 V rated value	750 W
<b>Control circuit/ Control</b>	
control supply voltage at DC rated value	24 V
holding power of magnet coil at DC	5.9 W
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	3
number of NO contacts for auxiliary contacts	3
<b>Protective and monitoring functions</b>	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	16.25 A

UL/CSA ratings		
<b>full-load current (FLA) for 3-phase AC motor</b>		
• at 480 V rated value		1.19 A
• at 600 V rated value		1.25 A
<b>yielded mechanical performance [hp]</b>		
• for 3-phase AC motor		
— at 460/480 V rated value		0.5 hp
— at 575/600 V rated value		0.5 hp
Short-circuit protection		
<b>product function short circuit protection</b>		Yes
<b>design of the short-circuit trip</b>		magnetic
<b>conditional short-circuit current (I<sub>q</sub>)</b>		
• at 400 V according to IEC 60947-4-1 rated value		153 000 A
Installation/ mounting/ dimensions		
<b>mounting position</b>		vertical
<b>fastening method</b>		for snapping onto 60 mm busbar systems
<b>height</b>		260 mm
<b>width</b>		90 mm
<b>depth</b>		165 mm
<b>required spacing</b>		
• 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 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> )
connectable conductor cross-section for main contacts finely stranded with core end processing		1 ... 6 mm <sup>2</sup>
Safety related data		
proportion of dangerous failures with high demand rate according to SN 31920		73 %
<b>B10 value with high demand rate according to SN 31920</b>		1 000 000
Electrical Safety		
<b>protection class IP on the front according to IEC 60529</b>		IP20
<b>touch protection on the front according to IEC 60529</b>		finger-safe, for vertical contact from the front
Approvals Certificates		
General Product Approval	For use in hazardous locations	other



[Confirmation](#)



[Confirmation](#)

Dangerous goods Environment

[Transport Information](#)

[Environmental Conformations](#)

#### 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=3RA2225-0KD23-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-0KD23-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-0KD23-0BB4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2225-0KD23-0BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-0KD23-0BB4&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-0KD23-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-0KD23-0BB4&objecttype=14&gridview=view1>

---

last modified:

12/15/2020 

# Mouser Electronics

Authorized Distributor

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

[Siemens:](#)

[3RA22250KD230BB4](#)