

Fuseless motor starter Reversing operation 600VAC Size S0 2.2-3.2A 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	
<ul style="list-style-type: none"> <li>of the supplied contactor</li> <li>of the supplied circuit-breakers</li> <li>of the supplied RS assembly kit</li> <li>of the supplied busbar adapter</li> <li>of the supplied link module</li> </ul>	<a href="#">3RT2023-1BB40</a> <a href="#">3RV2011-1DA15</a> <a href="#">3RA2923-1DB1</a> <a href="#">8US1251-5NT10</a> <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
<b>Ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -50 ... +80 °C -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	2.2 ... 3.2 A
operating voltage	
<ul style="list-style-type: none"> <li>rated value</li> <li>at AC-3 rated value maximum</li> </ul>	690 V 690 V
operating frequency rated value	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	2.7 A
operating power at AC-3	
<ul style="list-style-type: none"> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	1 100 W 1 500 W
<b>Control circuit/ Control</b>	
control supply voltage at DC	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	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	41.6 A

UL/CSA ratings			
<b>full-load current (FLA) for 3-phase AC motor</b>			
• at 480 V rated value		2.8 A	
• at 600 V rated value		3.16 A	
<b>yielded mechanical performance [hp]</b>			
• for single-phase AC motor			
— at 110/120 V rated value		0.1 hp	
— at 230 V rated value		0.25 hp	
• for 3-phase AC motor			
— at 200/208 V rated value		0.5 hp	
— at 220/230 V rated value		0.75 hp	
— at 460/480 V rated value		1.5 hp	
— at 575/600 V rated value		2 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			
B10 value with high demand rate according to SN 31920		1 000 000	
proportion of dangerous failures with high demand rate according to SN 31920		73 %	
<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	
Certificates/ approvals			
General Product Approval	For use in hazard-ous locations	Declaration of Conformity	other

[Confirmation](#)



[Confirmation](#)

Dangerous Good

[Transport Information](#)

#### Further information

**Siemens has decided to exit the Russian market (see here).**

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

**Siemens is working on the renewal of the current EAC certificates.**

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**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=3RA2225-1DD23-0BB4>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1DD23-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DD23-0BB4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2225-1DD23-0BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1DD23-0BB4&lang=en)

**Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DD23-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1DD23-0BB4&objecttype=14&gridview=view1>

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