



Fuseless motor starter Direct start 600VAC Size S00 7-10A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 1 1NO+1NC (MSP) 1NO (contactor)

<b>product brand name</b>	SIRIUS
<b>product designation</b>	non-fused motor starter 3RA2
<b>design of the product</b>	direct starter
<b>manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• of the supplied contactor</li> <li>• of the supplied circuit-breakers</li> <li>• of the supplied link module</li> </ul>	<a href="#">3RT2016-1BB41</a> <a href="#">3RV2011-1JA15</a> <a href="#">3RA1921-1DA00</a>
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S00
<b>size of load feeder</b>	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	30 000 000
<b>type of assignment</b>	1
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<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>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	7 ... 10 A
<b>operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>	690 V 690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	8.5 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>	4 000 W 5 500 W
<b>Control circuit/ Control</b>	
<b>control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 V

holding power of magnet coil at DC	4 W	
<b>Auxiliary circuit</b>		
number of NC contacts for auxiliary contacts	1	
number of NO contacts for auxiliary contacts	2	
<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	130 A	
<b>UL/CSA ratings</b>		
<b>full-load current (FLA) for 3-phase AC motor</b>		
• at 480 V rated value	7.6 A	
• at 600 V rated value	9 A	
<b>yielded mechanical performance [hp]</b>		
• for 3-phase AC motor		
— at 200/208 V rated value	2 hp	
— at 220/230 V rated value	3 hp	
— at 460/480 V rated value	5 hp	
— at 575/600 V rated value	7.5 hp	
<b>Short-circuit protection</b>		
product function short circuit protection	Yes	
design of the short-circuit trip	magnetic	
conditional short-circuit current (I <sub>q</sub> )		
• at 400 V according to IEC 60947-4-1 rated value	153 000 A	
<b>Installation/ mounting/ dimensions</b>		
mounting position	vertical	
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug	
height	167.2 mm	
width	45 mm	
depth	97.1 mm	
<b>required spacing</b>		
• for grounded parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	20 mm	
— at the side	9 mm	
— downwards	10 mm	
• for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	20 mm	
— downwards	10 mm	
— at the side	9 mm	
<b>Connections/ Terminals</b>		
type of electrical connection for main current circuit	screw-type terminals	
<b>type of connectable conductor cross-sections</b>		
• for main contacts stranded	0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )	
• at AWG cables for main contacts	2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12	
connectable conductor cross-section for main contacts finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup>	
<b>Safety related data</b>		
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	
<b>Certificates/ approvals</b>		
<b>General Product Approval</b>	<b>For use in hazardous locations</b>	<b>Declaration of Conformity</b>



[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping	other	Railway
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PRS



RINA



RMRS



DNV-GL

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Dangerous Good
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[Transport Information](#)

Further information
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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=3RA2115-1JA16-1BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2115-1JA16-1BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-1JA16-1BB4>

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

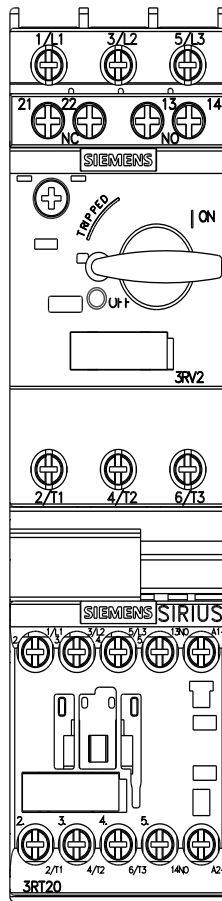
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2115-1JA16-1BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2115-1JA16-1BB4&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-1JA16-1BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2115-1JA16-1BB4&objecttype=14&gridview=view1>



last modified:

12/15/2020 