



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 54...65 A 20 ... 33 V AC/DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, I<sub>q</sub> = 150 kA 1 NO+1 NC (contactor) with circuit (integrated)

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Direct (on-line) starter
<b>design of the product</b>	for standard rail or screw mounting
<b>product type designation</b>	3RA21
<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="#">3RT2037-1NB30</a> <a href="#">3RV2032-4JA10</a> <a href="#">3RA2931-1AA00</a>
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S2
<b>size of load feeder</b>	S2
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>surge voltage resistance rated value</b>	6 kV
<b>degree of protection NEMA rating</b>	other
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	10 000 000
<b>type of assignment</b>	2
<b>type of protection according to ATEX directive 2014/34/EU</b>	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
<b>Substance Prohibitation (Date)</b>	03/01/2017
<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 -50 ... +80 °C
<b>temperature compensation</b>	-20 ... +60 °C
relative humidity during operation	10 ... 95 %
<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>	54 ... 65 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	65 A	
operating power at AC-3		
• at 230 V rated value	18 500 W	
• at 400 V rated value	30 000 W	
<b>Control circuit/ Control</b>		
<b>type of voltage of the control supply voltage</b>	AC/DC	
<b>control supply voltage at AC</b>		
• at 50 Hz rated value	20 ... 33 V	
• at 60 Hz rated value	20 ... 33 V	
<b>control supply voltage at DC</b>		
• rated value	20 ... 33 V	
<b>inductive power factor with the holding power of the coil</b>	1	
<b>holding power of magnet coil at DC</b>	1 W	
<b>Auxiliary circuit</b>		
<b>product extension auxiliary switch</b>	Yes	
<b>Protective and monitoring functions</b>		
<b>trip class</b>	CLASS 10	
<b>design of the overload release</b>	thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit	845 A	
<b>Short-circuit protection</b>		
<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	150 000 A	
<b>Installation/ mounting/ dimensions</b>		
<b>mounting position</b>	vertical, horizontal	
<b>fastening method</b>	screw and snap-on mounting to two 35 mm standard mounting rails	
<b>height</b>	274 mm	
<b>width</b>	55 mm	
<b>depth</b>	150 mm	
<b>required spacing</b>		
• for grounded parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	10 mm	
— at the side	10 mm	
<b>Connections/ Terminals</b>		
<b>type of electrical connection</b>		
• for main current circuit	screw-type terminals	
• for auxiliary and control circuit	screw-type terminals	
<b>Safety related data</b>		
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front	
<b>Communication/ Protocol</b>		
<b>protocol is supported</b>		
• PROFINET IO protocol	No	
• PROFI-safe protocol	No	
protocol is supported AS-Interface protocol	No	
<b>Certificates/ approvals</b>		
<b>General Product Approval</b>	<b>For use in hazardous locations</b>	<b>Declaration of Conformity</b>



[Confirmation](#)



EG-Konf.

Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other

Railway

Dangerous Good



[Confirmation](#)

[Vibration and Shock](#)

[Transport Information](#)

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=3RA2150-4JA37-0NB3>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4JA37-0NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4JA37-0NB3>

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

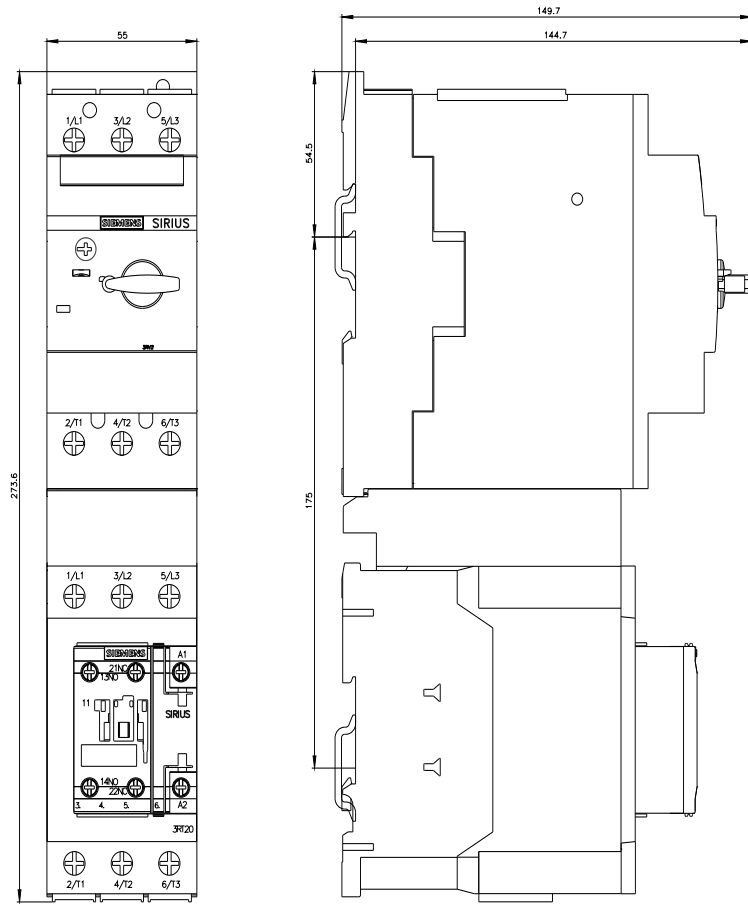
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2150-4JA37-0NB3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4JA37-0NB3&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4JA37-0NB3/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2150-4JA37-0NB3&objecttype=14&gridview=view1>



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