



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 49...59 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 DIN-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="#">3RV2032-4XA10</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
<b>power loss [W] for rated value of the current</b>	
<ul style="list-style-type: none"> <li>• at AC in hot operating state per pole</li> <li>• without load current share typical</li> </ul>	12.5 W 2 W
<b>type of calculation of power loss current-dependent</b>	quadratic
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
<b>shock resistance according to IEC 60068-2-27</b>	6 g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
<b>type of coordination</b>	2
<b>reference code according to IEC 81346-2:2019</b>	Q
<b>Substance Prohibition (day/month/year)</b>	03/01/2017
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
<b>Net Weight</b>	2.412 kg
<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-</b>	49 ... 59 A

<b>dependent overload release</b>	
<b>operating voltage</b>	
• rated value	690 V
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
<b>operational current</b>	
• at AC-3 at 400 V rated value	59 A
• at AC-3e at 400 V rated value	59 A
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	30 000 W
• at AC-3e	
— 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 rated value</b>	20 ... 33 V
<b>apparent holding power of magnet coil at AC</b>	2 VA
• at 50 Hz	2 VA
• at 60 Hz	2 VA
<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)
<b>response value current of instantaneous short-circuit trip unit</b>	845 A
<b>UL/CSA ratings</b>	
<b>full-load current (FLA) for 3-phase AC motor</b>	
• at 480 V rated value	59 A
• at 600 V rated value	52 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 DIN 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

## Connections/ Terminals

<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>for main current circuit</li> </ul>	screw-type terminals
<ul style="list-style-type: none"> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals

## Safety related data

product function suitable for safety function	Yes
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## Electrical Safety

<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front
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## Communication/ Protocol

<b>protocol is supported</b>	
<ul style="list-style-type: none"> <li>PROFINET IO protocol</li> </ul>	No
<ul style="list-style-type: none"> <li>PROFIsafe protocol</li> </ul>	No
protocol is supported AS-Interface protocol	No

## Approvals Certificates

<b>Environment</b>	<b>General Product Approval</b>	<b>For use in hazardous locations</b>
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[Environmental Conformations](#)



## Test Certificates

Maritime application

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



## Maritime application

other



[Confirmation](#)

[Confirmation](#)



## Railway

Dangerous goods

[Special Test Certificate](#)

[Transport Information](#)

## Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RA2150-4XA37-0NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4XA37-0NB3>

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

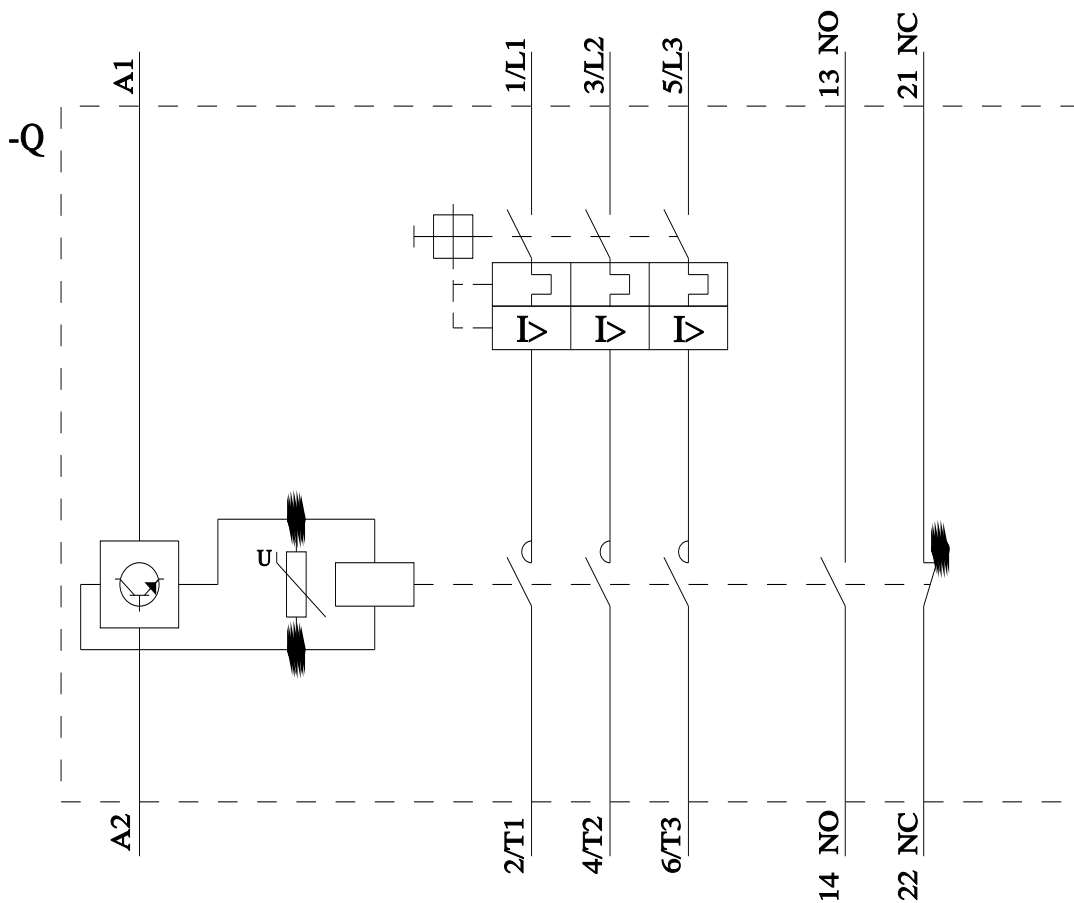
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2150-4XA37-0NB3&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4XA37-0NB3&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4XA37-0NB3>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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