



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_q = 150 kA 1
NO+1 NC (contactor) with circuit (integrated)

product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for standard rail or screw mounting
product type designation	3RA21
manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module 	3RT2037-1NB30 3RV2032-4XA10 3RA2931-1AA00
General technical data	
size of the circuit-breaker	S2
size of load feeder	S2
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
degree of protection NEMA rating	other
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	10 000 000
type of assignment	2
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
Substance Prohibition (Date)	03/01/2017
Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +60 °C -50 ... +80 °C -50 ... +80 °C
temperature compensation	-20 ... +60 °C
relative humidity during operation	10 ... 95 %
Main circuit	
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	49 ... 59 A
operating voltage	
<ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum 	690 V 690 V
operating frequency rated value	50 ... 60 Hz

operational current at AC-3 at 400 V rated value	59 A	
operating power at AC-3		
• at 230 V rated value	18 500 W	
• at 400 V rated value	30 000 W	
Control circuit/ Control		
type of voltage of the control supply voltage	AC/DC	
control supply voltage at AC		
• at 50 Hz rated value	20 ... 33 V	
• at 60 Hz rated value	20 ... 33 V	
control supply voltage at DC		
• rated value	20 ... 33 V	
inductive power factor with the holding power of the coil	1	
holding power of magnet coil at DC	1 W	
Auxiliary circuit		
product extension auxiliary switch	Yes	
Protective and monitoring functions		
trip class	CLASS 10	
design of the overload release	thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit	845 A	
Short-circuit protection		
product function short circuit protection	Yes	
design of the short-circuit trip	magnetic	
conditional short-circuit current (I_q)		
• at 400 V according to IEC 60947-4-1 rated value	150 000 A	
Installation/ mounting/ dimensions		
mounting position	vertical, horizontal	
fastening method	screw and snap-on mounting to two 35 mm standard mounting rails	
height	274 mm	
width	55 mm	
depth	150 mm	
required spacing		
• 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		
type of electrical connection		
• for main current circuit	screw-type terminals	
• for auxiliary and control circuit	screw-type terminals	
Safety related data		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
protocol is supported		
• PROFINET IO protocol	No	
• PROFIsafe protocol	No	
protocol is supported AS-Interface protocol	No	
Certificates/ approvals		
General Product Approval	For use in hazardous locations	Declaration of Conformity



[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=3RA2150-4XA37-0NB3>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4XA37-0NB3&lang=en

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

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

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2150-4XA37-0NB3&objecttype=14&gridview=view1>

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