



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	
• of the supplied contactor	3RT2037-1NB30
• of the supplied circuit-breakers	3RV2032-4XA10
• of the supplied link module	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
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Shock resistance	
• acc. 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

Ambient conditions

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 pick-up value current of the current-dependent overload release	49 ... 59 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating 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
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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 acc. to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
Mounting position	vertical, horizontal
Mounting type	Screw-fixing 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
Certificates/ approvals	

General Product Approval	For use in hazardous locations	Declaration of Conformity	Test Certificates
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CSA



UL



ATEX



EG-Konf.

[Type Test Certificates/Test Report](#)

Test Certificates	Marine / Shipping
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[Special Test Certificate](#)



ABS



LRS



PRS



RINA



RMRS

Marine / Shipping	other	Railway
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[Confirmation](#)

[Vibration and Shock](#)

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, ...)

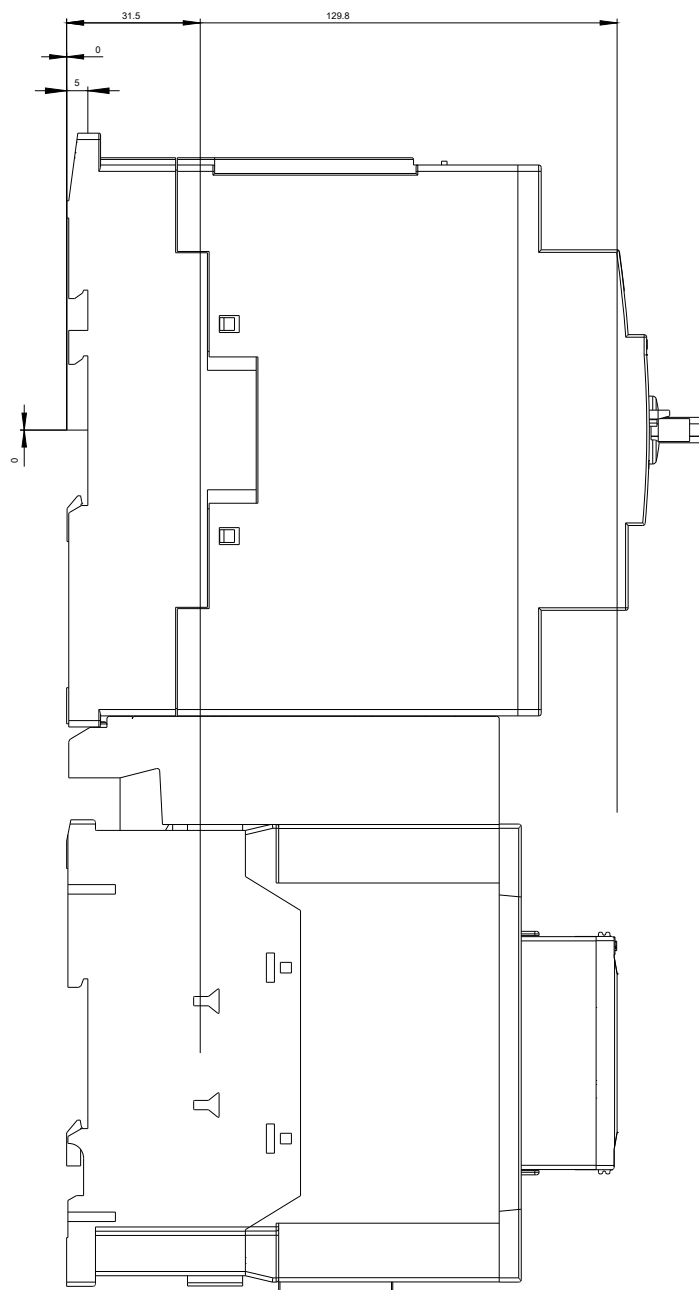
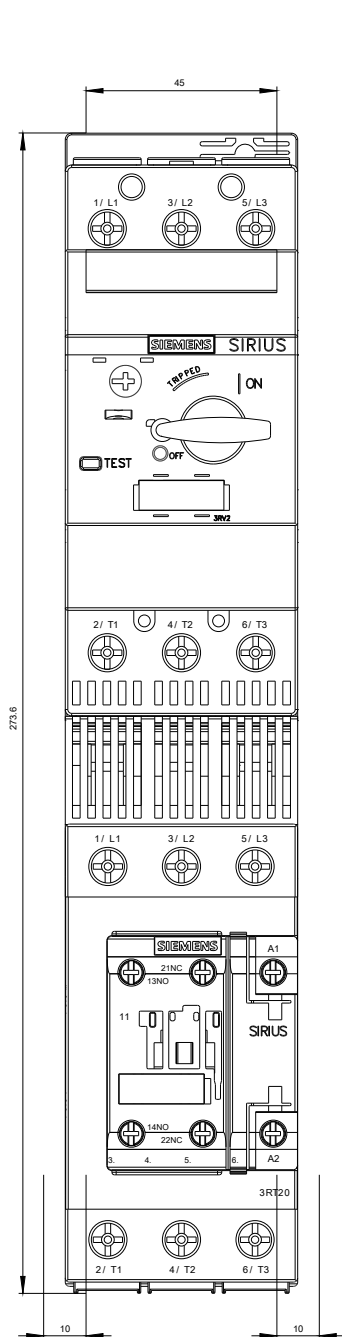
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4XA37-0NB3&lang=en

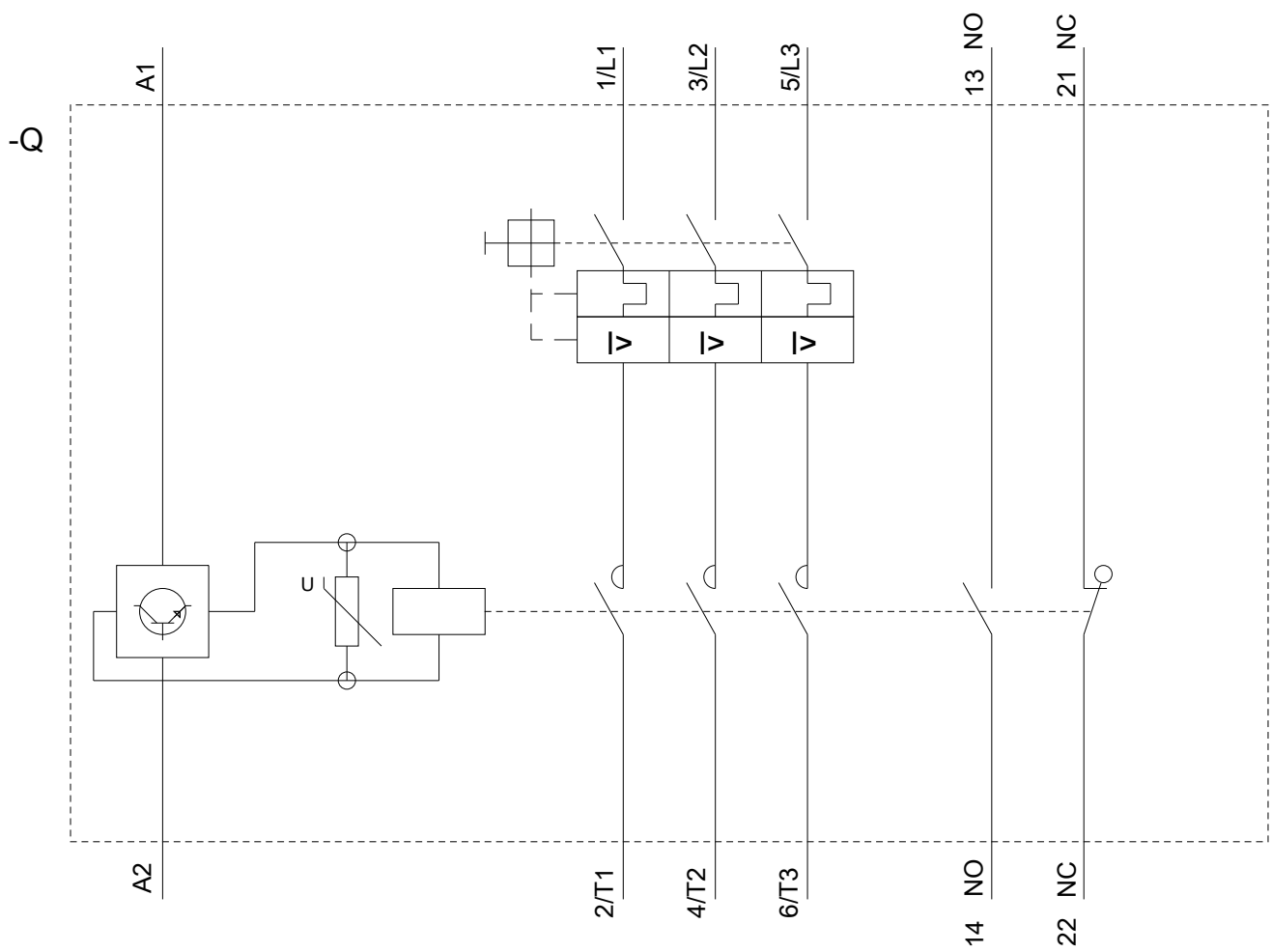
Characteristic: Tripping characteristics, I_t, Let-through current

<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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