

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 28 ...
 36 A 230 V AC, 50 Hz screw terminal for installation on standard
 mounting rail (also fulfills type of coordination 1) Type of coordination
 2, I_q = 100 kA 1 NO+1 NC (contactor)



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 	3RT2035-1AP00
<ul style="list-style-type: none"> • of the supplied circuit-breakers 	3RV2031-4PA10
<ul style="list-style-type: none"> • of the supplied link module 	3RA2931-1AA00

General technical data	
Size of the circuit-breaker	S2
Size of load feeder	S2
<ul style="list-style-type: none"> • Insulation voltage with degree of pollution 3 at AC rated value 	690 V
Surge voltage resistance rated value	6 kV
<ul style="list-style-type: none"> • protection class IP on the front 	IP20
<ul style="list-style-type: none"> • Protection class IP of the terminal 	IP00
Shock resistance	
<ul style="list-style-type: none"> • 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

Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-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 pick-up value current of the current-dependent overload release	28 ... 36 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	35 A
Operating power	
• at AC-3	
— at 230 V rated value	11 000 W
— at 400 V rated value	18 500 W

Control circuit/ Control

Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
Apparent holding power of magnet coil at AC	16 V·A
Inductive power factor with the holding power of the coil	0.37

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	520 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	100 000 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
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[Miscellaneous](#)

Test Certificates	Marine / Shipping
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



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=3RA2130-4PA35-0AP0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2130-4PA35-0AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4PA35-0AP0>

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

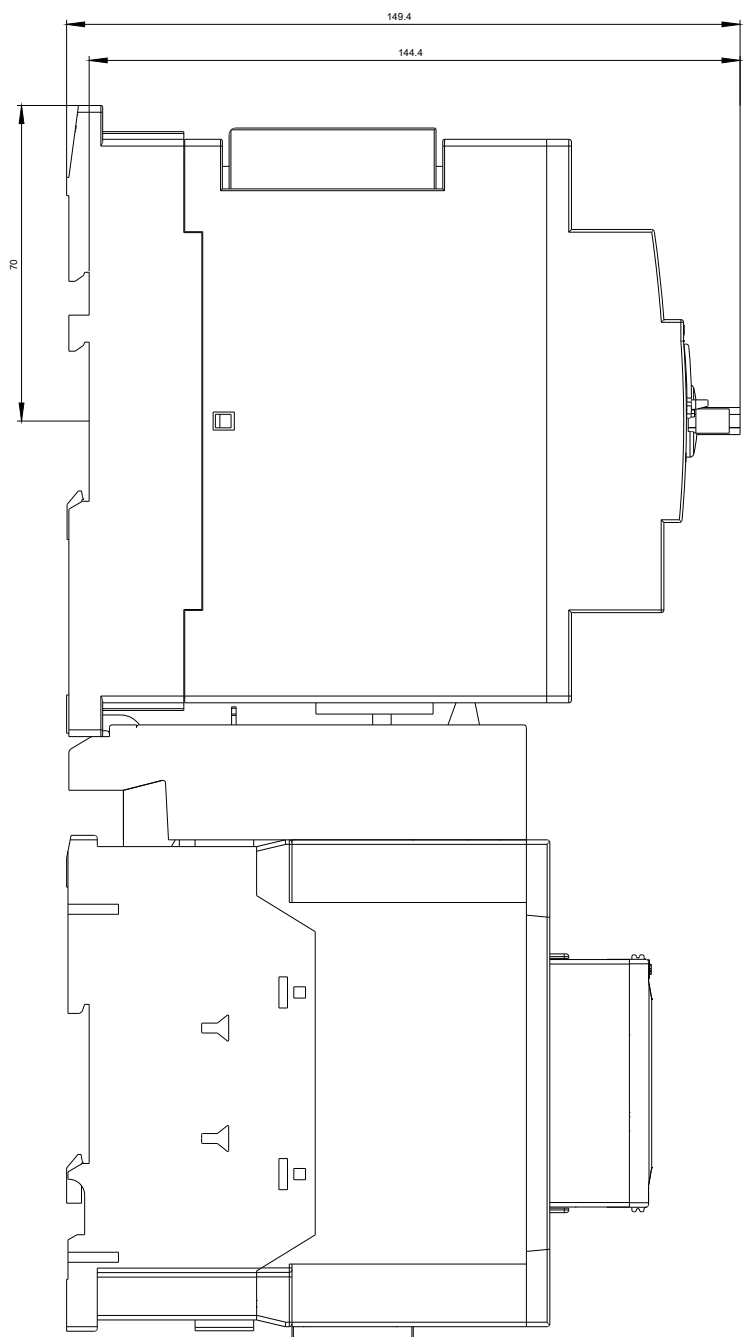
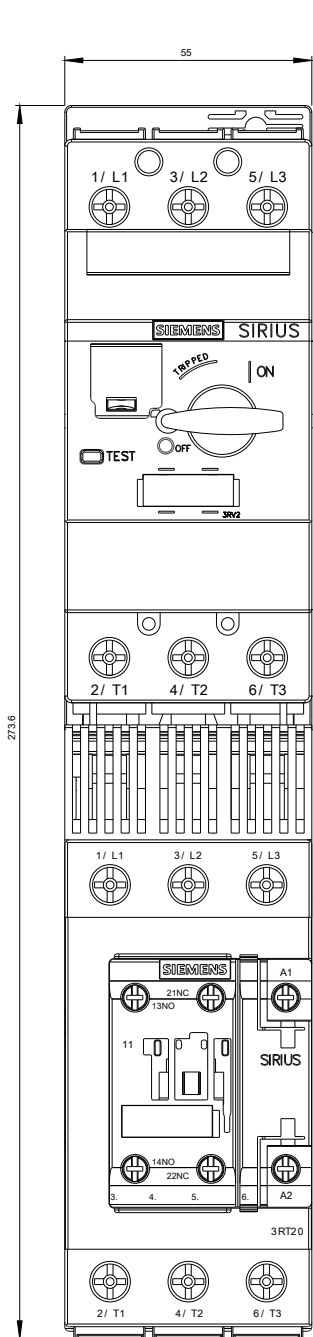
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2130-4PA35-0AP0&lang=en

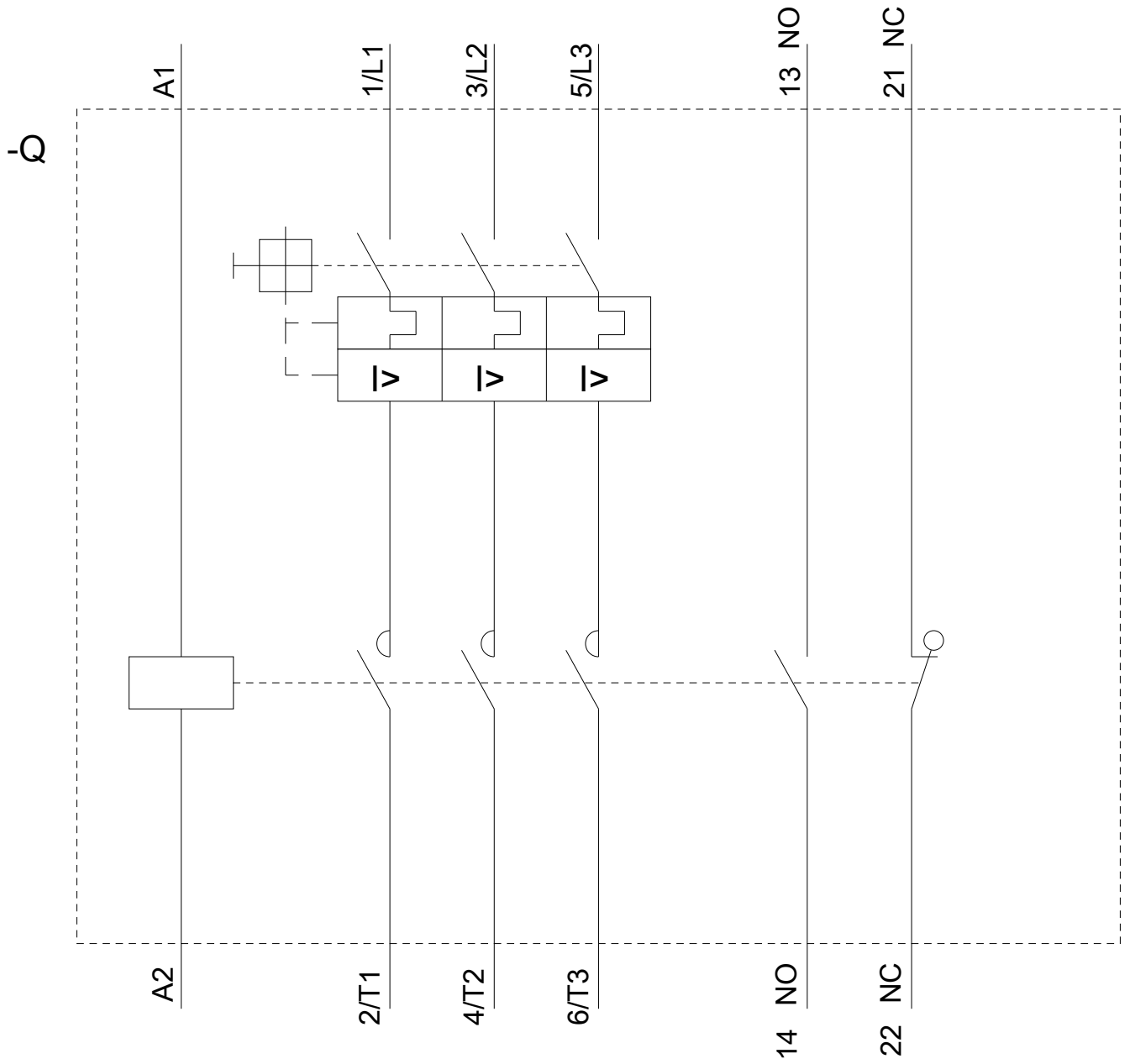
Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4PA35-0AP0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2130-4PA35-0AP0&objecttype=14&gridview=view1>





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