SIEMENS

Data sheet 3RA2110-1KD17-1BB4

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00
9.00...12.5 A 24 V DC screw terminal for 60 mm busbar systems
Type of coordination 1, Iq = 150 kA 1 NO (contactor)

Product brand name	SIRIUS
Product designation	Direct (on-line) starter
Design of the product	for 60 mm busbars
Product type designation	3RA21
Manufacturer's article number	
• of the supplied contactor	3RT2017-1BB41
• of the supplied circuit-breakers	3RV2011-1KA10
• of the supplied busbar adapter	8US1251-5DS10
• of the supplied link module	3RA1921-1DA00

General technical data	
Size of the circuit-breaker	S00
Size of load feeder	S00
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	IP20
Shock resistance	

• acc. to IEC 60068-2-27	6g / 11 ms
Mechanical service life (switching cycles)	
• of contactor typical	30 000 000
Type of assignment	1
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	9 ... 12.5 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	11.5 A
Operating power	
• at AC-3	
— at 400 V rated value	5 500 W

Control circuit/ Control

Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• rated value	24 V
Holding power of magnet coil at DC	4 W

Auxiliary circuit

Product extension Auxiliary switch	Yes

Protective and monitoring functions

Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	11 A
Yielded mechanical performance [hp]	
• for three-phase AC motor	

— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp

Short-circuit protection

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (Iq)	
• at 400 V acc. to IEC 60947-4-1 rated value	150 000 A

Installation/ mounting/ dimensions

Mounting position	vertical
Mounting type	for snapping onto 60 mm busbar systems
Height	200 mm
Width	45 mm
Depth	155 mm
Required spacing	
• for grounded parts	
— forwards	20 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm

Connections/ Terminals

Type of electrical connection	
• for main current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— stranded	0.5 ... 4 mm², 2x (0.75 ... 2.5 mm²)
• at AWG conductors for main contacts	2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12
Connectable conductor cross-section for main contacts	
• finely stranded with core end processing	0.5 ... 2.5 mm²

Safety related data

B10 value	

• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
• with high demand rate acc. to SN 31920	73 %

Certificates/ approvals

General Product Approval			For use in hazardous locations	Declaration of Conformity	
CSA	UL		ATEX	EG-Konf.	Miscellaneous

Test Certificates		Marine / Shipping			
Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	LRS	PRS

Marine / Shipping			other	Railway
RINA	RMRS		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=3RA2110-1KD17-1BB4

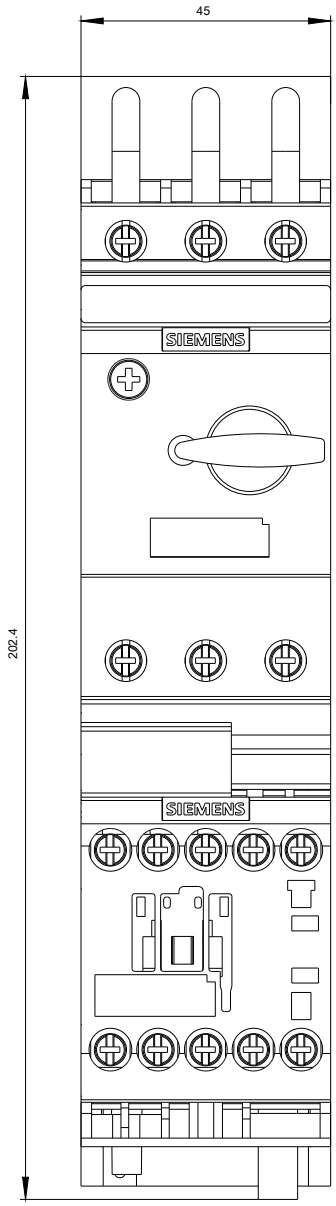
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1KD17-1BB4

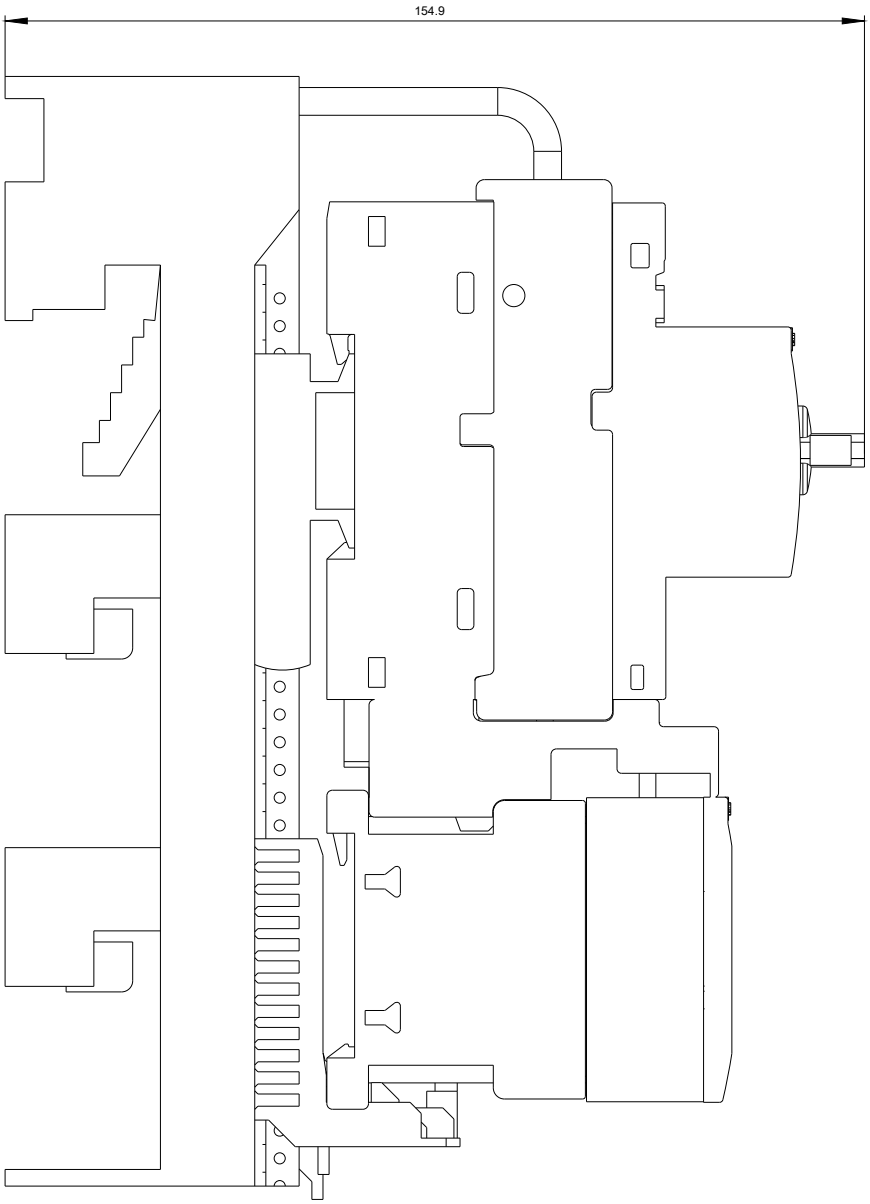
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KD17-1BB4

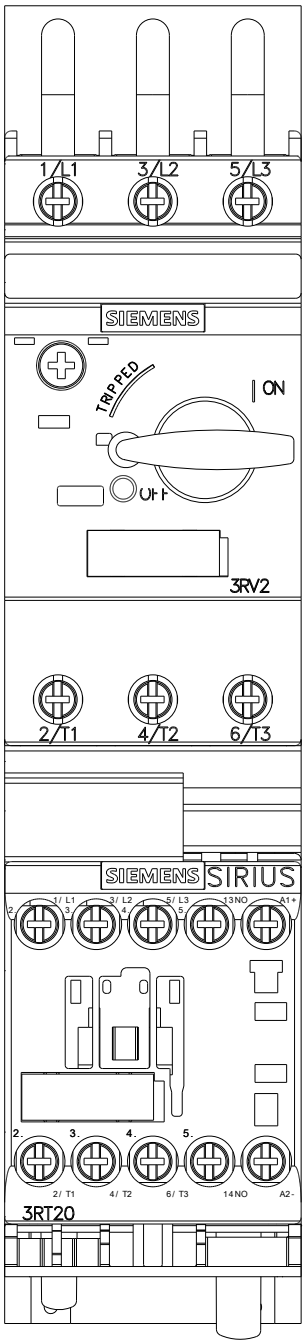
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1KD17-1BB4&lang=en

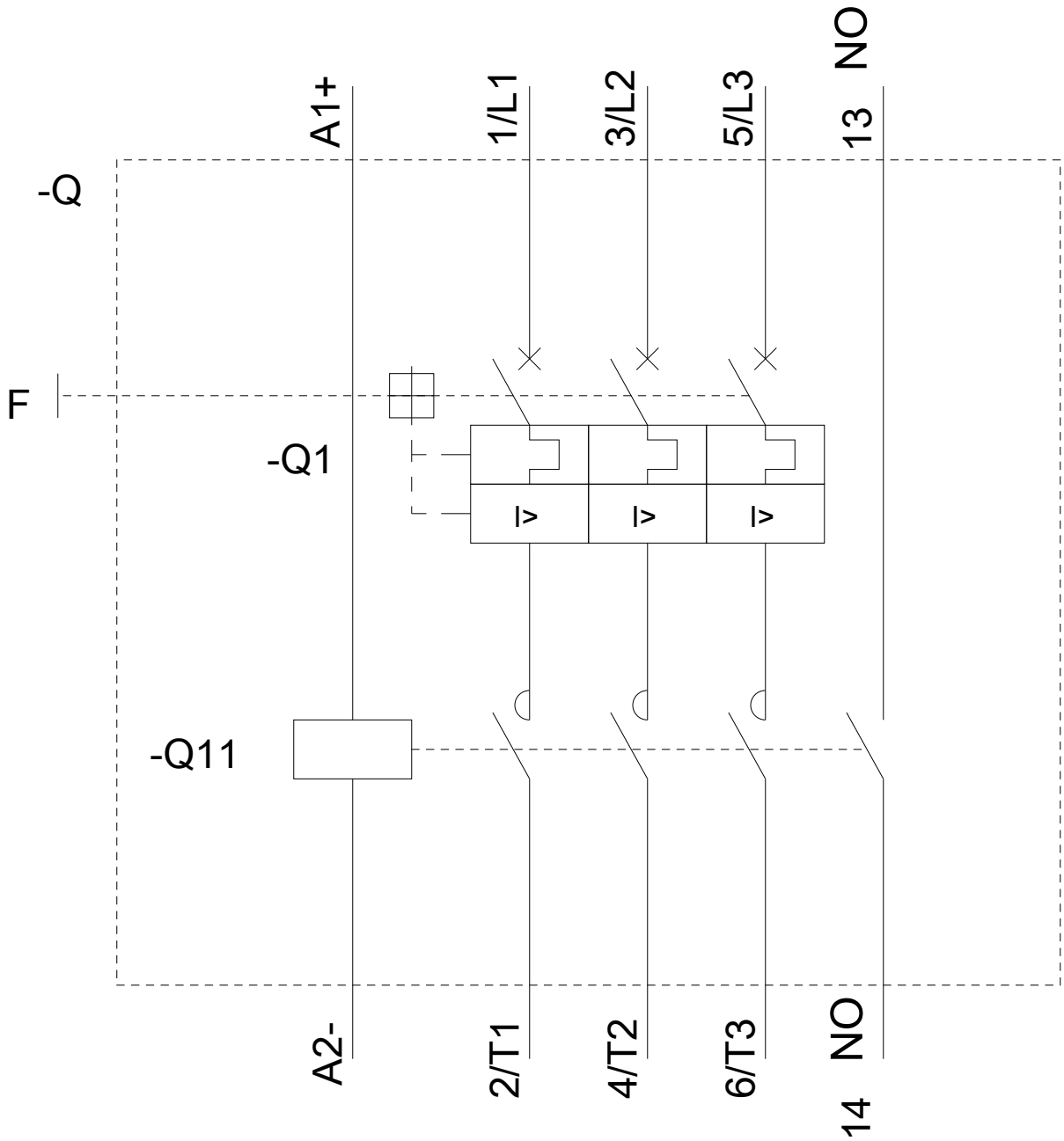
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KD17-1BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1KD17-1BB4&objecttype=14&gridview=view1









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