SIEMENS

Data sheet 3RA2110-1DA15-1AK6

FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S00 2.2...3.2A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NO (CONTACTOR)

Figure similar

product brandname	SIRIUS
Product designation	non-fused load feeders 3RA2
Design of the product	direct starter
Manufacturer's article number	
• of the supplied contactor	3RT2015-1AK61
• of the supplied circuit-breakers	3RV2011-1DA10
• of the supplied link module	3RA1921-1DA00

General technical data	
Size of the circuit-breaker	S00
Size of load feeder	S00
Product extension	
• Auxiliary switch	Yes
Insulation voltage	
• with degree of pollution 3 rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	

• on the front	IP20
• of the terminal	IP00
Mechanical service life (switching cycles)	
• of contactor typical	30 000 000
Type of assignment	2
Protection against electrical shock	finger-safe

Ambient conditions

Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C

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	2.2 ... 3.2 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	2.7 A
Operating power	
• **at AC-3**	
— at 400 V rated value	1 100 W
— at 500 V rated value	1 500 W
— at 690 V rated value	2 200 W

Control circuit/ Control

Control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	120 V
Apparent holding power of magnet coil at AC	4.2 V·A

Protective and monitoring functions

Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)
Response value current	
• of instantaneous short-circuit trip unit	41.6 A

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	

• at 480 V rated value	2.8 A
• at 600 V rated value	3.16 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
• for three-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	1.5 hp
— at 575/600 V rated value	2 hp

Short-circuit protection

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (Iq)	
• at 690 V acc. to IEC 60947-4-1 rated value	10 000 A
• at 400 V acc. to IEC 60947-4-1 rated value	153 000 A
• at 500 V acc. to IEC 60947-4-1 rated value	100 000 A

Installation/ mounting/ dimensions

Mounting position	vertical
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	167.2 mm
Width	45 mm
Depth	97.1 mm
Required spacing	
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	20 mm
— at the side	9 mm
— downwards	10 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	20 mm
— downwards	10 mm
— at the side	9 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	EAC	ATEX	IECEx	EG-Konf.

Test Certificates		Shipping Approval			
Type Test Certificates/Test Report	Special Test Certificate	ABS	LRS	PRS	RINA

Shipping Approval	other		Railway
RMRS	Environmental Confirmations	Confirmation	Vibration and Shock

Further information

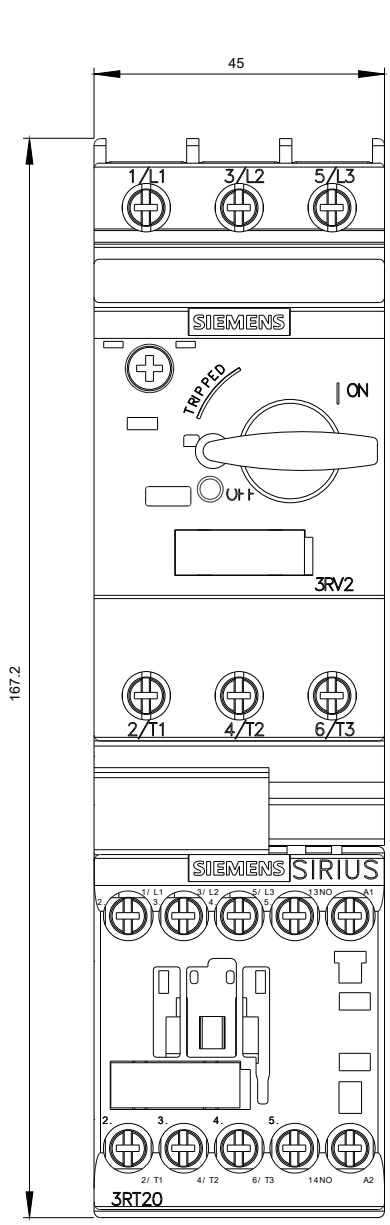
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

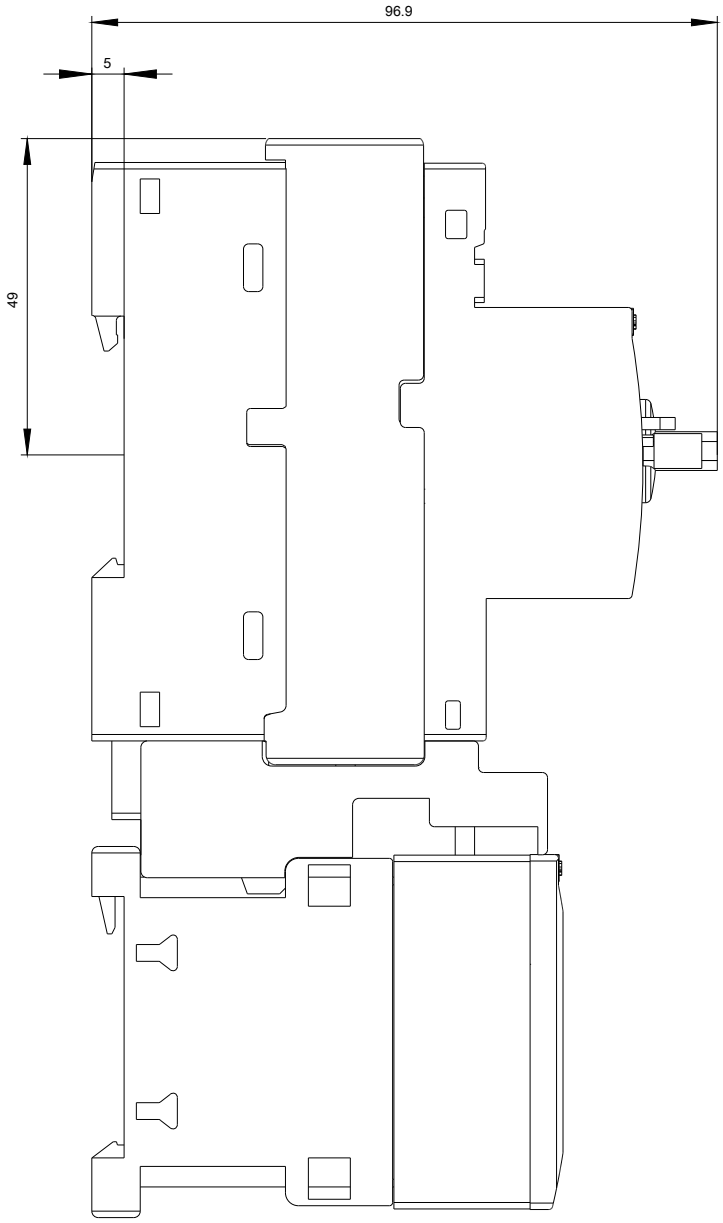
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1DA15-1AK6

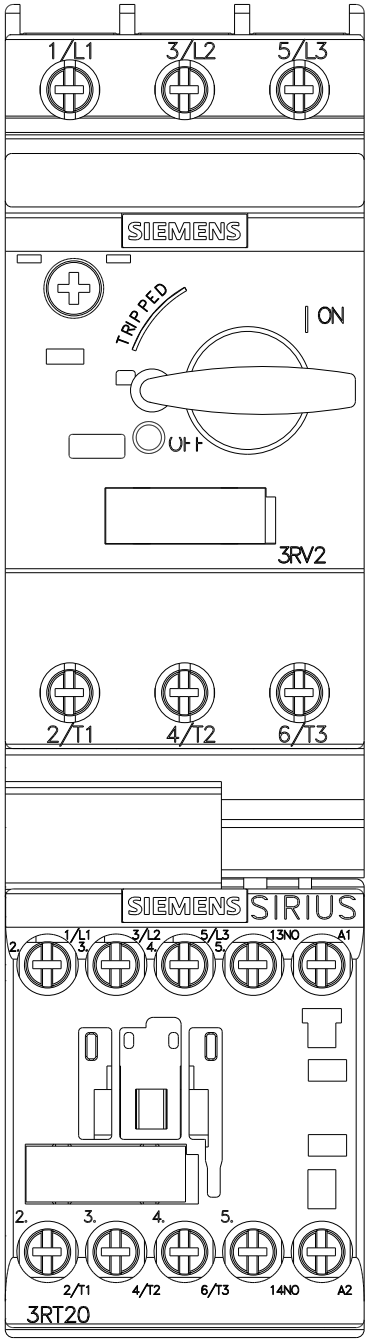
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1DA15-1AK6

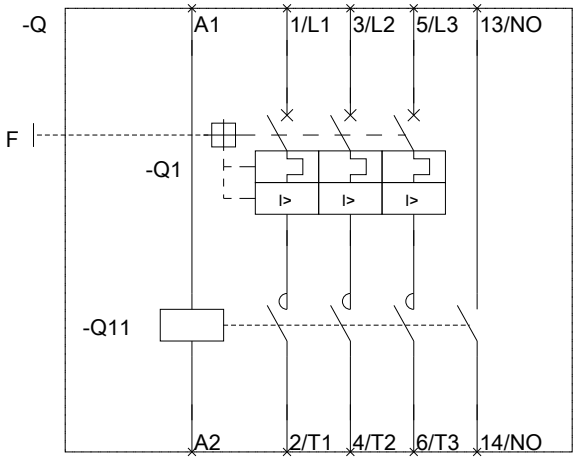
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1DA15-1AK6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1DA15-1AK6&lang=en









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