## Data sheet

Fuseless motor starter Direct start 600VAC Size S00 0.18-0.25a 220/240VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO (contactor)



Product brand name	SIRIUS
Product designation	non-fused motor starter 3RA2
Design of the product	direct starter
Manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1AP61
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-0CA10
• 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		
<ul> <li>with degree of pollution 3 at AC rated value</li> </ul>	690 V	
Degree of pollution	3	
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	30 000 000
Type of assignment	2
Main circuit  Number of poles for main current circuit	3
Design of the switching contact	electromechanical
Adjustable pick-up value current of the current-	0.18 0.25 A
dependent overload release	0.10 0.23 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	0.2 A
Operating power	
• at AC-3	
— at 400 V rated value	60 W
— at 500 V rated value	90 W
— at 690 V rated value	120 W
Control circuit/ Control  Control supply voltage at AC	
at 50 Hz rated value	220 V
	187 242 V
• at 50 Hz rated value	240 V
• at 60 Hz rated value	192 264 V
at 60 Hz rated value  Apparent holding power of magnet coil at AC	4.8 V·A
Inductive power factor with the holding power of the	0.25
coil	0.23
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	0
Number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	
Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)
Response value current	
<ul> <li>of instantaneous short-circuit trip unit</li> </ul>	3.25 A
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	100 000 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

Mounting position	vertical
Mounting type	Snap-mounted to DIN rail or screw-mounted with additional push
	in lug
Height	167.2 mm
Width	45 mm
Depth	97.1 mm
Required spacing	
<ul> <li>for grounded parts</li> </ul>	
— 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)
<ul> <li>at AWG conductors for main contacts</li> </ul>	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	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	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 loca-

## **Declaration of Conformity**









tions



Miscellaneous

#### **Test Certificates**

#### Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









## Marine / Shipping

other

Railway





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=3RA2110-0CA15-1AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-0CA15-1AP6

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

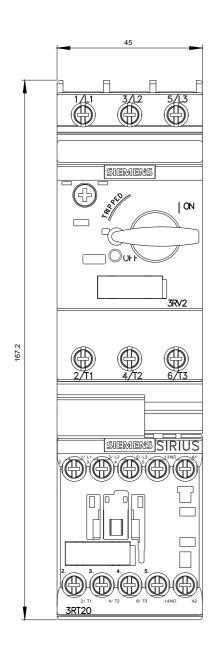
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0CA15-1AP6

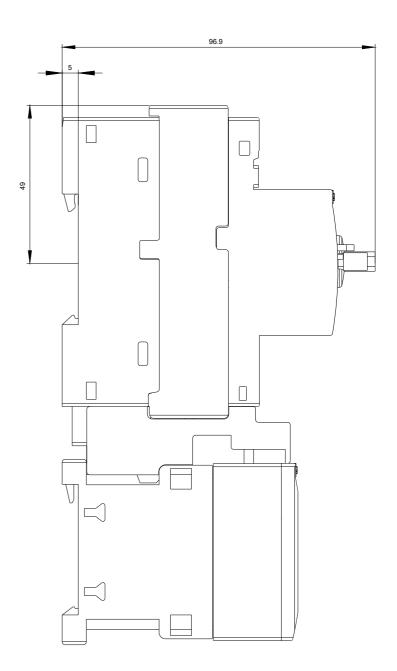
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-0CA15-1AP6&lang=en

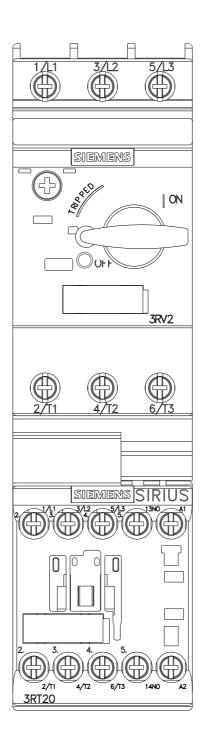
Characteristic: Tripping characteristics, I2t, Let-through current

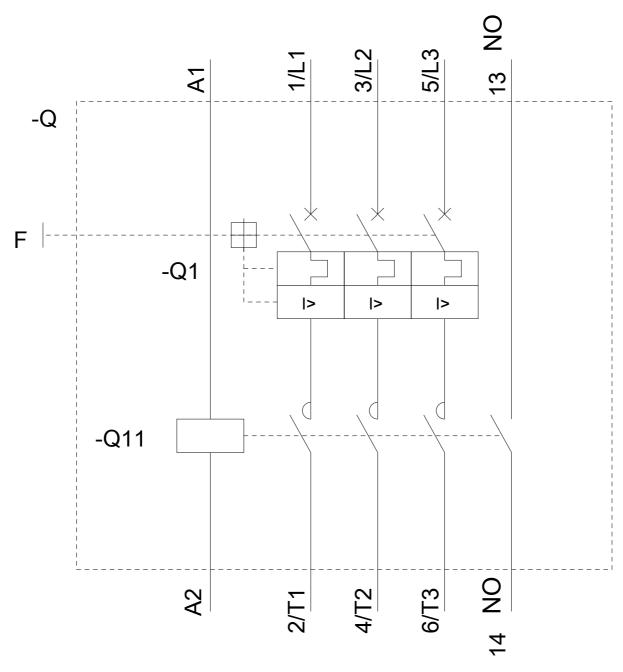
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0CA15-1AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-0CA15-1AP6&objecttype=14&gridview=view1









last modified: 03/30/2020