# **SIEMENS**

## **Data sheet**

# 3RA2110-1DA15-1AP6



Fuseless motor starter Direct start 600VAC Size S00 2.2-3.2A 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>	3RV2011-1DA10
<ul> <li>of the supplied link module</li> </ul>	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 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (operating cycles) of contactor typical	30 000 000
type of assignment	2
Weight	0.58 kg
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
during transport	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response 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
operational 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
Control circuit/ Control	
control supply voltage at AC	
at 50 Hz rated value	220 V
• at 50 Hz rated value	187 242 V

• at 60 Hz rated value	240 V
at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	4.8 VA
inductive power factor with the holding power of the coil	0.25
Auxiliary circuit	
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 of instantaneous short-circuit trip unit	41.6 A
UL/CSA ratings	
full-load current (FLA) for 3-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 3-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	2.10
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	magnetio
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
at 500 V according to IEC 60947-4-1 rated value	100 000 A
Installation/ mounting/ dimensions	100 000 A
metallation/ mounting/ uniterisions	
mounting position	vertical
mounting position	vertical  Span mounted to DIN rail or screw mounted with additional push in lug
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
fastening method height	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm
fastening method height width	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
fastening method height width depth	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm
fastening method height width depth required spacing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
fastening method height width depth required spacing • for grounded parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm
fastening method height width depth required spacing  • for grounded parts — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm 0 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm
fastening method height width depth required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — upwards — upwards — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — downwards — downwards — downwards — backwards — backwards — backwards — upwards — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 0 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — backwards — backwards — townards — townards — downwards — backwards — backwards — backwards — at the side — downwards — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards — torwards — backwards — backwards — upwards — upwards — at the side Connections/ Terminals	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 9 mm 10 mm 0 mm 0 mm 9 mm 10 mm 9 mm 10 mm
fastening method height width depth required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — at the side — downwards  • for live parts — forwards — backwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
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fastening method height width depth required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — a the side — downwards  • for live parts — forwards — backwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm  0 mm 0 mm 20 mm 10 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
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#### **Approvals Certificates**

### **General Product Approval**

For use in hazardous locations

Confirmation











**Test Certificates** 

Marine / Shipping

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report









Marine / Shipping



Confirmation

other

**Special Test Certific-**

Railway

**Environmental Confirmations** 

**Environment** 

Further information

Information on the packaging

.com/cs/ww/en/view/109813875

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=3RA2110-1DA15-1AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1DA15-1AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1DA15-1AP6

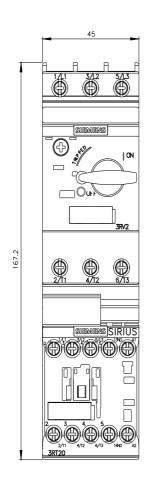
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

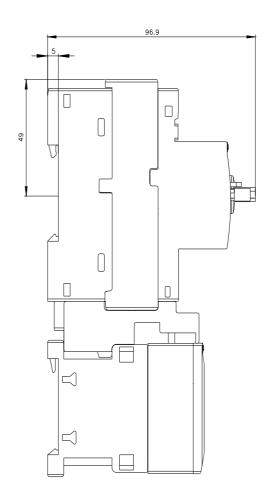
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2110-1DA15-1AP6&lang=en

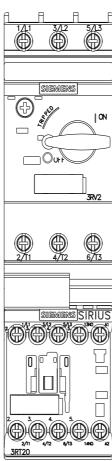
Characteristic: Tripping characteristics, I2t, Let-through current

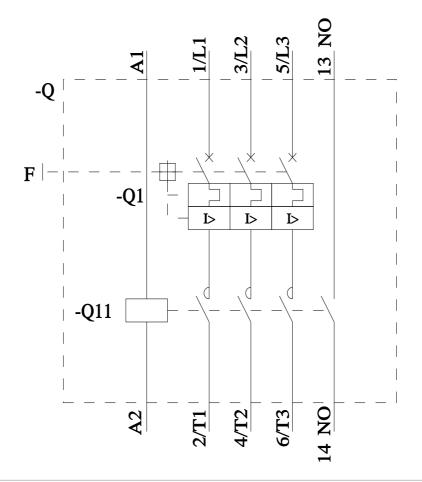
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1DA15-1AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1DA15-1AP6&objecttype=14&gridview=view1









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