## SIEMENS

## Data sheet

## 3RA2115-4AA18-1AK6



Fuseless motor starter Direct start 600VAC Size S00 11-16Amp 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 1 1NO+1NC (MSP) 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>	<u>3RT2018-1AK61</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-4AA15</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA1921-1DA00</u>
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	1
Weight	0.58 kg
Ambient conditions	
ambient temperature	
during operation	-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	11 16 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	15.5 A
operating power at AC-3	
• at 400 V rated value	7 500 W
• at 500 V rated value	7 500 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 50 Hz rated value	93.5 121 V

a at CO Lie rated welfing	100 \/
at 60 Hz rated value	120 V
at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	6.5 VA
inductive power factor with the holding power of the coil	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	44.0
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	14 A 11 A
vielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
for 3-phase AC motor	- np
- at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	to the
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (lg)	
<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	153 000 A
Installation/ mounting/ dimensions	
	vertical
mounting position fastening method	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug
mounting position	
mounting position fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
mounting position fastening method height	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm
mounting position fastening method height width	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
mounting position fastening method height width depth	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
mounting position 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
mounting position 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
mounting position 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
mounting position         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 0 mm
mounting position 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
mounting position         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
mounting position         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 9 mm
mounting position         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
mounting position         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 0 mm
mounting position         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 0 mm 20 mm 10 mm 10 mm 10 mm
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — the side         — at the side         — at the side         — at the side         — at the side         — 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 10 mm 0 mm 20 mm 20 mm
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — downwards         — at the side         — downwards         — at the side         — downwards         — 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 20 mm 10 mm 10 mm 10 mm
mounting position         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         - backwards         - at the side         - backwards         - at the side         - backwards         - backwards         - backwards         - backwards         - backwards         - upwards         - downwards         - 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 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — downwards         • for live parts         — forwards         — at the side         — downwards         — at the side         — downwards         — at the side         — downwards         — 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 20 mm 9 mm 10 mm 9 mm 20 mm 9 mm 10 mm 9 mm
mounting position         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         — backwards         — upwards         — downwards         — at the side         — upwards         — downwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts	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 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — forwards         — of ownwards         • 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 finely         connectable conductor cross-section for main contacts finely	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 20 mm 9 mm 10 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — downwards         • for live parts         — forwards         — at the side         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections 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 9 mm 10 mm 0 mm 0 mm 20 mm 9 mm 10 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - backwards         - 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         Safety related data         proportion of dangerous failures with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920	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 20 mm 10 screw-type terminals 0.5 2.5 mm <sup>2</sup>
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — 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         Safety related data         proportion of dangerous failures with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920         Electrical Safety	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         0 mm         20 mm         9 mm         10 mm         0 screw-type terminals         0.5 4 mm², 2x (0.75 2.5 mm²)         0.5 2.5 mm²         73 %         1 000 000
mounting position         fastening method         height         width         depth         required spacing         • for grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - backwards         - backwards         - 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         Safety related data         proportion of dangerous failures with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920	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 20 mm 10 mm 9 mm 10 mm 1

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https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-4AA18-1AK6

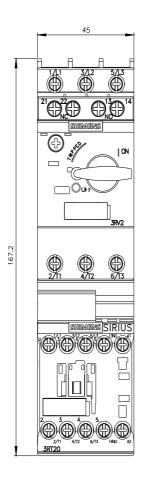
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

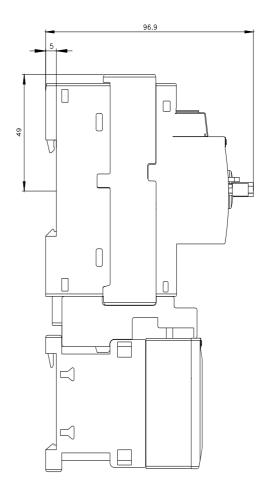
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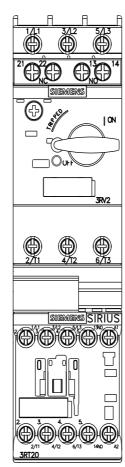
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

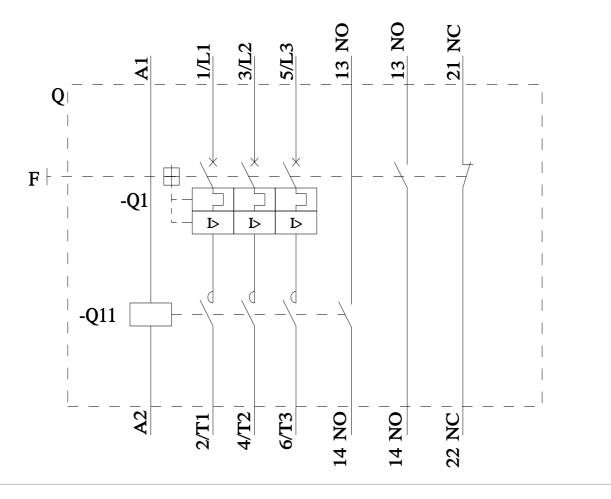
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2115-4AA18-1AK6&objecttype=14&gridview=view1









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