SIEMENS

Data sheet

3RA2110-1KA17-1AP6



Fuseless motor starter Direct start 600VAC Size S00 9-12.5 Amp 220/240VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 1 1NO (contactor)

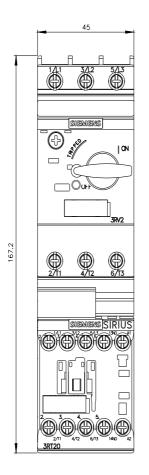
product brand name	SIRIUS				
product designation	non-fused motor starter 3RA2				
design of the product	direct starter				
manufacturer's article number					
 of the supplied contactor 	<u>3RT2017-1AP61</u>				
 of the supplied circuit-breakers 	<u>3RV2011-1KA10</u>				
 of the supplied link module 	<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 (switching cycles) of contactor typical	30 000 000				
type of assignment	1				
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	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				
operational 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				
• at 500 V rated value	7 500 W				
Control circuit/ Control					
control supply voltage at AC					

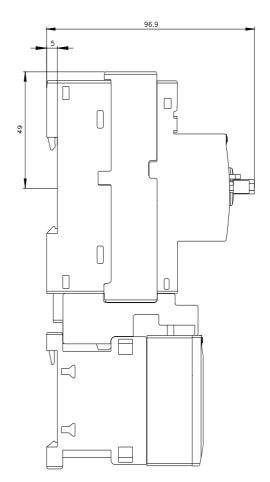
a at 50 Hz rated value	107 0401/
at 50 Hz rated value	187 242 V 240 V
at 60 Hz rated value	
at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	6.5 VA
inductive power factor with the holding power of the coil	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts	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 of instantaneous short-circuit trip unit	162.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for 3-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 (lg)	
 conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value 	153 000 A
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	vertical
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
the at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing o for grounded parts	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards	vertical Snap-mounted to DIN rail or screw-mounted with additional push-in lug 167.2 mm 45 mm 97.1 mm
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards	vertical 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
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards — at the side	vertical 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
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards — at the side — downwards	vertical 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
t 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	vertical 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
the side of t	vertical 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
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards at the side downwards for live parts forwards forwards backwards backwards backwards 	vertical 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
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards at the side downwards for live parts forwards for live parts forwards forwards 	vertical 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
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards for live parts forwards backwards forwards for live parts backwards backwards upwards at the side downwards for live parts backwards upwards upwards 	vertical 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 20 mm
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts for grounded parts forwards backwards upwards at the side downwards backwards backwards downwards for live parts forwards backwards upwards at the side downwards at the side 	vertical 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 20 mm 10 mm 10 mm
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions 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 at the side downwards at the side 	vertical 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 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm
• at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	vertical 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 20 mm 10 mm
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 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts forwards backwards upwards at the side downwards for live parts at the side backwards upwards at the side downwards at the side downwards for live parts at the side at the side backwards backwards backwards for live parts at the side connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded 	vertical 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 9 mm 10 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20 mm
• at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions 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 Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts connectable conductor cross-section for main contacts	vertical 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 10 mm 9 mm 20 mm 10 mm 20 mm
• at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions 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 — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing	vertical 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 mm 0 mm 20 mm 10 mm 0 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20 mm 20 mm 20 mm 10 mm 20 mm
• at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions 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 Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded • at AWG cables for main contacts connectable conductor cross-section for main contacts	vertical 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 mm 0 mm 20 mm 10 mm 0 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20 mm 20 mm 20 mm 10 mm 20 mm

proportion of dangerous failures with high demand rate according to SN 31920		73 %						
protection class IP on the front according to IEC 60529		IP20						
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front					
Certificates/ approvals								
General Product A	pproval				For use in hazard- ous locations	Declaration of Conformity		
SP CM	<u>Confirmation</u>	(UL) ut		EHC	K ATEX	CE EG-Konf.		
Declaration of Conformity	Test Certificates			Marine / Shipping				
UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyd's Register uts		
Marine / Shipping					other	Railway		
PRS	RINA			DNV-GL DNV-GL	Confirmation	Vibration and Shock		
https://www.siemens Industry Mall (Onlin https://mall.industry.s Cax online generate	e ordering system) siemens.com/mall/en/en/ or	Catalog/product	t?mlfb=3					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1KA17-1AP6 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KA17-1AP6								

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1KA17-1AP6&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1KA17-1AP6/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1KA17-1AP6&objecttype=14&gridview=view1





last modified:

12/15/2020 🖸

7/8/2022

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