

Fuseless motor starter Reversing operation 600VAC Size S0 2.2-3.2A
110/120VAC 50/60HZ screw connection For 35 mm rail-mounting Type of
coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP)
1NO+1NC (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
• of the supplied contactor	3RT2023-1AK60
• of the supplied circuit-breakers	3RV2011-1DA15
• of the supplied RH assembly kit	3RA2923-1BB1
• of the supplied busbar adapter	3RA2922-1AA00
• of the supplied link module	3RA2921-1AA00
• of the supplied DIN-rail adapter	3RA2922-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
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	10 000 000
type of assignment	2
Substance Prohibitance (Date)	03/01/2017
Weight	1.45 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	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	110 V
• at 50 Hz rated value	88 ... 121 V
• at 60 Hz rated value	120 V
• at 60 Hz rated value	96 ... 132 V
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	3

number of NO contacts for auxiliary contacts	3			
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				
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
conditional short-circuit current (Iq)				
• at 400 V according to IEC 60947-4-1 rated value	153 000 A			
Installation/ mounting/ dimensions				
mounting position	vertical			
fastening method	snap-on fastening on 35 mm DIN rail			
height	265 mm			
width	90 mm			
depth	120 mm			
required spacing				
• for grounded parts				
— forwards	10 mm			
— backwards	0 mm			
— upwards	30 mm			
— at the side	9 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
— backwards	0 mm			
— upwards	30 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	1 ... 10 mm², 2x (2.5 ... 6 mm²)			
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 6 mm²			
Safety related data				
proportion of dangerous failures with high demand rate according to SN 31920	73 %			
B10 value with high demand rate according to SN 31920	1 000 000			
Electrical Safety				
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			
Approvals Certificates				
General Product Approval		For use in hazard-ous locations	other	Environment



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[Environmental Con-
firmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.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=3RA2225-1DB23-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1DB23-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DB23-0AK6>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1DB23-0AK6&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DB23-0AK6/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1DB23-0AK6&objecttype=14&gridview=view1>

last modified:

11/21/2022

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