

Data sheet

3RA2225-1AB23-0AK6

product brand name		SIRIUS
product designation		non-fused motor starter 3RA2
design of the product		reversing starter
manufacturer's article number		3RT2023-1AK60
<ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied RH assembly kit • of the supplied busbar adapter • of the supplied link module • of the supplied standard mounting rail adapter 		3RV2011-1AA15 3RA2923-1BB1 3RA2922-1AA00 3RA2921-1AA00 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 Prohibition (Date)	03/01/2017	
Weight	1.45 kg	
Ambient conditions		
ambient temperature	<ul style="list-style-type: none"> • 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	1.1 ... 1.6 A	
operating voltage	<ul style="list-style-type: none"> • 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	1.5 A	
operating power at AC-3	<ul style="list-style-type: none"> • at 400 V rated value 550 W • at 500 V rated value 550 W • at 690 V rated value 1 100 W 	
Control circuit/ Control		
control supply voltage at AC	<ul style="list-style-type: none"> • 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	20.8 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	1.6 A	
• at 600 V rated value	1.3 A	
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 230 V rated value	0.1 hp	
• for 3-phase AC motor		
— at 460/480 V rated value	0.75 hp	
— at 575/600 V rated value	0.75 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	1 ... 10 mm ² , 2x (2.5 ... 6 mm ²)	
stranded		
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 6 mm ²	
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 hazardous locations	other



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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=3RA2225-1AB23-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAOrder/default.aspx?lang=en&mlfb=3RA2225-1AB23-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1AB23-0AK6>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1AB23-0AK6&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1AB23-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1AB23-0AK6&objecttype=14&gridview=view1>

last modified:

11/21/2022 

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