

## Data sheet

## 3RA2225-1DD23-0AP6

Fuseless motor starter Reversing operation 600VAC Size S0 2.2-3.2A  
 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems  
 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	<a href="#">3RT2023-1AP60</a>
• of the supplied circuit-breakers	<a href="#">3RV2011-1DA15</a>
• of the supplied RS assembly kit	<a href="#">3RA2923-1DB1</a>
• of the supplied busbar adapter	<a href="#">8US1251-5NT10</a>
• of the supplied link module	<a href="#">3RA2921-1AA00</a>
<b>General technical data</b>	
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	1.75 kg
<b>Ambient conditions</b>	
ambient temperature	<ul style="list-style-type: none"> <li>• during operation -20 ... +60 °C</li> <li>• during storage -50 ... +80 °C</li> <li>• during transport -55 ... +80 °C</li> </ul>
<b>Main circuit</b>	
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	<ul style="list-style-type: none"> <li>• rated value 690 V</li> <li>• at AC-3 rated value maximum 690 V</li> </ul>
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	<ul style="list-style-type: none"> <li>• at 400 V rated value 1 100 W</li> <li>• at 500 V rated value 1 500 W</li> </ul>
<b>Control circuit/ Control</b>	
control supply voltage at AC	<ul style="list-style-type: none"> <li>• at 50 Hz rated value 220 V</li> <li>• at 50 Hz rated value 176 ... 242 V</li> <li>• at 60 Hz rated value 240 V</li> <li>• at 60 Hz rated value 192 ... 264 V</li> </ul>
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the coil	0.28
<b>Auxiliary circuit</b>	
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	for snapping onto 60 mm busbar systems
height	260 mm
width	90 mm
depth	155 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 <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> )
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 6 mm <sup>2</sup>
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



[Confirmation](#)



[Confirmation](#)

## Environment

[Environmental Confirmations](#)

## 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=3RA2225-1DD23-0AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1DD23-0AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DD23-0AP6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2225-1DD23-0AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1DD23-0AP6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1DD23-0AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1DD23-0AP6&objecttype=14&gridview=view1>

---

last modified:

12/15/2020