

Fuseless motor starter Reversing operation 600VAC Size S0 0.55-0.8A 24V DC 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	3RT2023-1BB40
• of the supplied circuit-breakers	3RV2011-0HA15
• of the supplied RS assembly kit	3RA2923-1DB1
• of the supplied busbar adapter	8US1251-5NT10
• of the supplied link module	3RA2921-1BA00

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	2.14 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	0.55 ... 0.8 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	0.6 A
operating power at AC-3	
• at 400 V rated value	180 W
• at 500 V rated value	250 W
• at 690 V rated value	370 W

Control circuit/ Control

control supply voltage at DC rated value	24 V
holding power of magnet coil at DC	5.9 W

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	10.4 A

Short-circuit protection					
product function short circuit protection	Yes				
design of the short-circuit trip	magnetic				
conditional short-circuit current (I _q)					
• 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	165 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)				
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				
 EG-Konf.		Confirmation			Confirmation
Dangerous goods					
Environment					
Transport Information	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=3RA2225-0HD23-0BB4					
Cax online generator http://support.automation.siemens.com/WW/CAxorder/default.aspx?lang=en&mlfb=3RA2225-0HD23-0BB4					
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)					

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-0HD23-0BB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-0HD23-0BB4&lang=en

Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-0HD23-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-0HD23-0BB4&objecttype=14&gridview=view1>

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