SIEMENS

Data sheet

3RA2225-1FD24-0BB4

	Fuseless motor starter Reversing operation 600VAC Size S0 3.5-5A 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 	<u>3RT2024-1BB40</u>
 of the supplied circuit-breakers 	3RV2011-1FA15
 of the supplied RS assembly kit 	3RA2923-1DB1
 of the supplied busbar adapter 	<u>8US1251-5NT10</u>
 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	3.5 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	3.6 A
operating power at AC-3	
at 400 V rated value	1 500 W
at 500 V rated value	2 200 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	65 A
response value current of instantaneous short-circuit trip unit	00 A

full-load current (FLA) for 3-phase AC motor at 480 V rated value 4.8 A 4.55 A 4.5	
at 480 V rated value 4.8 A at 600 V rated value 4.55 A yielded mechanical performance (hp) • for single-phase AC motor — at 1101/20 V rated value of 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value at 220/330 V rated value at 220/330 V rated value — at 260/30 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 975/600 V rated value — at 575/600 V rated value — at 576/600 V rated value — at 400 V rated value — at 576/600 V rated value — at 576/600 V rated value — at 400 V rated value — at 400 V rated value • at 400 V according to IEC 60947.4-1 rated value • at 400 V according to IEC 60947.4-1 rated value 153 000 A • at 500 V according to IEC 60947.4-1 rated value Installation mounting dimensions mounting position fastening method for snapping onto 60 mm busbar systems height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards — the side — downwards — the side — downwards — upwards — at the side — downwards — the side — downwards — the side — downwards — the side — ownwards — the side — the side 1 m own 1 m own 1 m own 2 consectable conductor cross-section for main contacts finely stranted with core end processing	
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- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 480/480 V rated value - at 480/480 V rated value - at 575/600 V rated value Short-circuit protection	
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- at 460/480 V rated value 3 hp - at 575/600 V rated value 3 hp Short-circuit protection Product function short circuit protection 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 • at 500 V according to IEC 60947-4-1 rated value 100 000 A Installation mounting dimensions mounting position 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 - at the side 9 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - backwards 0 mm - downwards 10 mm - downwards 10 mm • for live parts - downwards 30 mm - downwards 10 mm - downwards 10 mm • for live parts - powards 30 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - for live parts - forwards 10 mm - for live parts - powards 30 mm - downwards 10 mm - for live parts - forwards 10 mm - for live parts - live first live parts - live firs	
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proportion of dangerous failures with high demand rate 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	





Confirmation







Test Certificates Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping other Railway Dangerous goods







Confirmation

Special Test Certificate

Transport Information

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=3RA2225-1FD24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1FD24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FD24-0BB4

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1FD24-0BB4\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FD24-0BB4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1FD24-0BB4&objecttype=14&gridview=view1

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