# **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	
<ul> <li>of the supplied contactor</li> </ul>	3RT2024-1BB40
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1FA15
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-1DB1
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>8US1251-5NT10</u>
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1BA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	SO
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	
<ul> <li>at 400 V rated value</li> </ul>	1 500 W
<ul> <li>at 500 V rated value</li> </ul>	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

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 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  — upwards  — at the side  — downwards  — to rive parts  — forwards  — to rive parts  — the side  — downwards  — upwards  — at the side  — downwards  — upwards  — at the side  — downwards  — the side  — ownwards  — the side  — ownwards  — ownwards  — ownwards  — at the side  — ownwards  — o	
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value  • for 3-phase AC motor  — at 200/280 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated	
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of or single-phase AC motor	
- at 110/120 V rated value	
- 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	
• for 3-phase AC motor  — at 200/208 V rated value — at 240/230 V rated value — 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 • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value  100 000 A  Installation/ mounting/ dimensions  mounting position vertical fastening method for snapping onto 60 mm busbar systems  height  260 mm  width 90 mm  165 mm  required spacing  • for grounded parts — forwards — at the side 9 mm  10 mm  • for live parts — forwards — at the side 9 mm  10 mm  • backwards — upwards — backwards — upwards — downwards — 10 mm  • backwards — upwards — downwards — 10 mm  • for live parts — forwards — at the side  Connections/ Terminals  Type of electrical connection for main current circuit  Vpp of electrical connection for main current circuit  Sorew-type terminals  Type of connectable conductor cross-section for main contacts finely stranded with core end processing  Safety rolated data  proportion of dangerous failures with high demand rate  73 %	
- at 200/208 V rated value 1 hp 1 h	
- at 220/230 V rated value 3 hp 3 h	
- 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 — upwards 30 mm • for live parts — downwards 10 mm  • for live parts — downwards 10 mm  Connections' Terminals  Type of electrical connection for main current circuit stranded with core end processing  Safety related data  proportion of dangerous failures with high demand rate 73 %	
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product function short circuit protection  design of the short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  • at 500 V according to IEC 60947-4-1 rated value  • 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  vertical  fastening method  height  260 mm  width  90 mm  depth  required spacing  • for grounded parts  — forwards — upwards — at the side — downwards — downwards — for live parts — forwards — backwards — onm  • for live parts — forwards — downwards — downwards — upwards — at the side — pupwards — backwards — onm  • for live parts — forwards — lo mm  — at the side — upwards — backwards — upwards — onm — onm  • or live parts — forwards — the side — upwards — the side — upwards — the side — upwards — at the side — onmectable conductor cross-sections for main contacts stranded  connectable conductor cross-sections for main contacts finely stranded with core end processing  Safety related data  proportion of dangerous failures with high demand rate  73 %	
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height     260 mm       width     90 mm       depth     165 mm       required spacing     • for grounded parts       • for grounded parts     10 mm       — backwards     0 mm       — upwards     30 mm       — at the side     9 mm       — downwards     10 mm       • for live parts     0 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     73 %	
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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     0 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     73 %	
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<ul> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>— at the side</li> <li>— 9 mm</li> </ul> Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate 73 %	
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— backwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  proportion of dangerous failures with high demand rate  0 mm 30 mm 9 mm  Commetable terminals 1 10 mm², 2x (2.5 6 mm²) 1 6 mm²  1 6 mm²	
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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  Safety related data  proportion of dangerous failures with high demand rate  73 %	
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stranded with core end processing  Safety related data  proportion of dangerous failures with high demand rate  73 %	
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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**Authorized Distributor** 

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3RA22251FD240BB4