



Fuseless motor starter Reversing operation 600VAC Size S0 0.45-0.63A  
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  
(per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
<ul style="list-style-type: none"> <li>of the supplied contactor</li> <li>of the supplied circuit-breakers</li> <li>of the supplied RS assembly kit</li> <li>of the supplied busbar adapter</li> <li>of the supplied link module</li> </ul>	<a href="#">3RT2023-1AP60</a> <a href="#">3RV2011-0GA10</a> <a href="#">3RA2923-1DB1</a> <a href="#">8US1251-5NT10</a> <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	1.73 kg
<b>Ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -50 ... +80 °C -55 ... +80 °C
<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	0.45 ... 0.63 A
operating voltage	
<ul style="list-style-type: none"> <li>rated value</li> <li>at AC-3 rated value maximum</li> </ul>	690 V 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	
<ul style="list-style-type: none"> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	180 W 180 W 250 W

<b>Control circuit/ Control</b>			
<b>control supply voltage at AC</b>			
• at 50 Hz rated value		220 V	
• at 50 Hz rated value		176 ... 242 V	
• at 60 Hz rated value		240 V	
• at 60 Hz rated value		192 ... 264 V	
<b>apparent holding power of magnet coil at AC</b>		7.2 VA	
<b>inductive power factor with the holding power of the coil</b>		0.28	
<b>Auxiliary circuit</b>			
<b>number of NC contacts for auxiliary contacts</b>		2	
<b>number of NO contacts for auxiliary contacts</b>		2	
<b>Protective and monitoring functions</b>			
<b>trip class</b>		CLASS 10	
<b>design of the overload release</b>		thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit		8.19 A	
<b>Short-circuit protection</b>			
<b>product function short circuit protection</b>		Yes	
<b>design of the short-circuit trip</b>		magnetic	
<b>conditional short-circuit current (I<sub>q</sub>)</b>			
• at 400 V according to IEC 60947-4-1 rated value		153 000 A	
<b>Installation/ mounting/ dimensions</b>			
<b>mounting position</b>		vertical	
<b>fastening method</b>		for snapping onto 60 mm busbar systems	
<b>height</b>		260 mm	
<b>width</b>		90 mm	
<b>depth</b>		155 mm	
<b>required spacing</b>			
• 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	
<b>Connections/ Terminals</b>			
type of electrical connection for main current circuit		screw-type terminals	
type of connectable conductor cross-sections for main contacts stranded		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>	
<b>Safety related data</b>			
proportion of dangerous failures with high demand rate according to SN 31920		73 %	
<b>B10 value with high demand rate according to SN 31920</b>		1 000 000	
<b>Electrical Safety</b>			
<b>protection class IP on the front according to IEC 60529</b>		IP20	
<b>touch protection on the front according to IEC 60529</b>		finger-safe, for vertical contact from the front	
<b>Approvals Certificates</b>			
General Product Approval		For use in hazardous locations	other Environment



[Confirmation](#)

[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=3RA2220-0GD23-0AP6>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-0GD23-0AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GD23-0AP6>

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

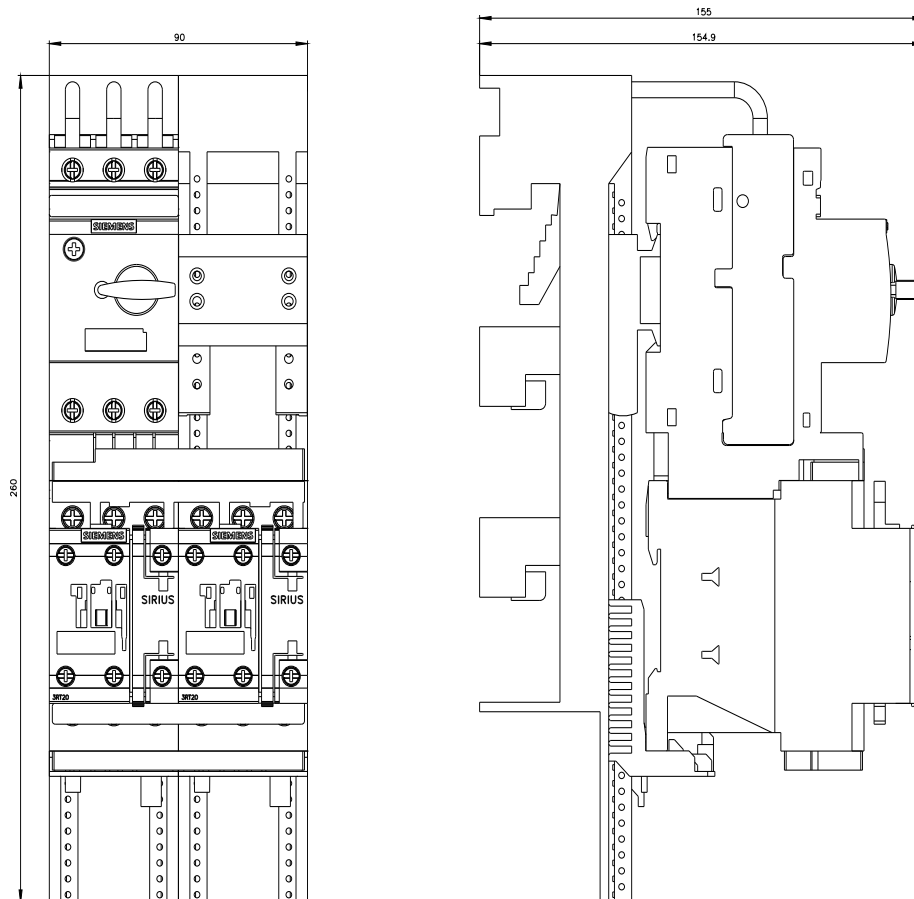
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-0GD23-0AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-0GD23-0AP6&lang=en)

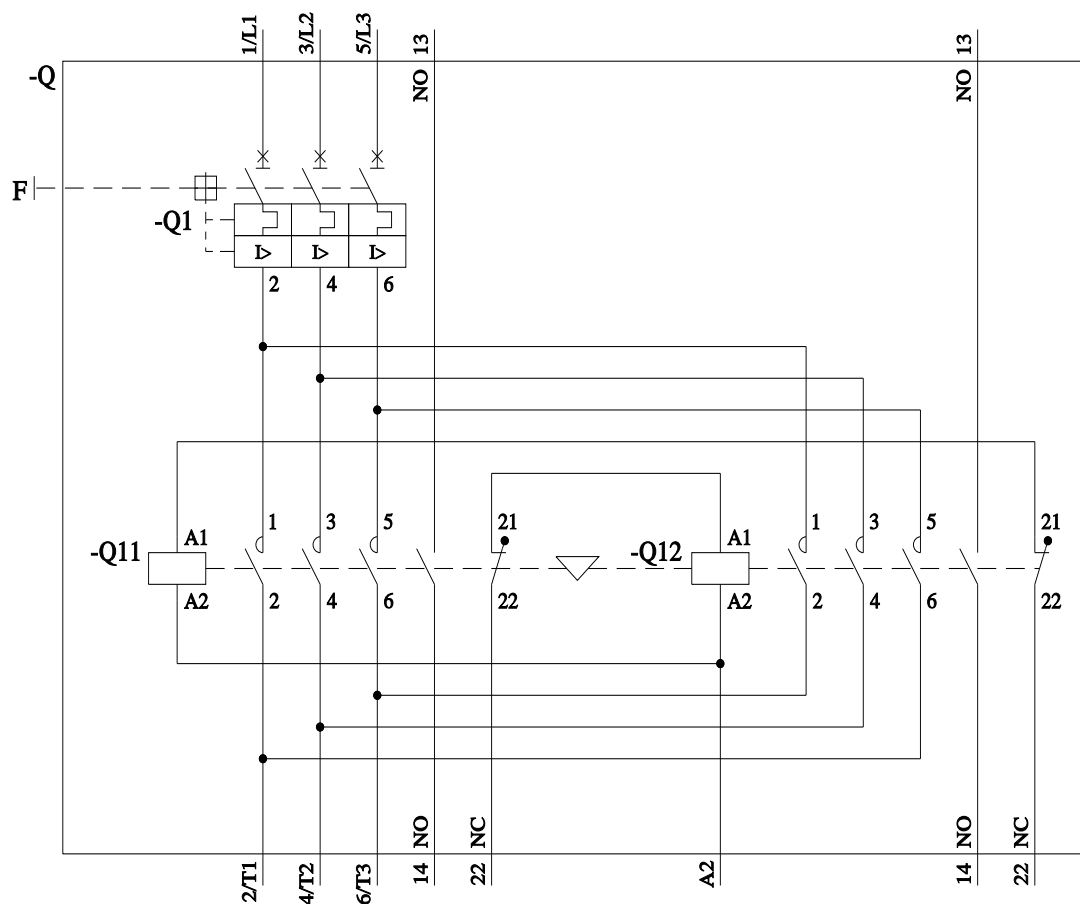
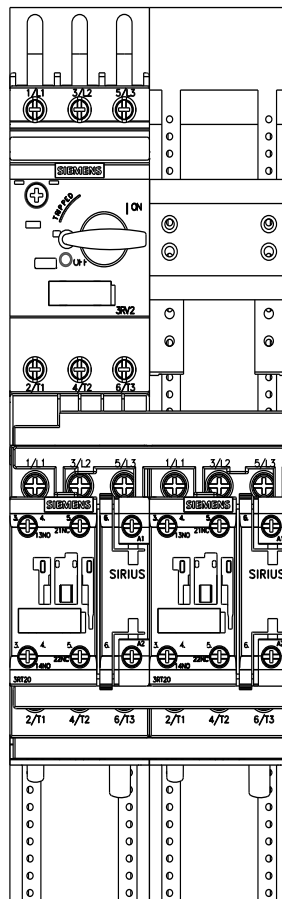
### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GD23-0AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-0GD23-0AP6&objecttype=14&gridview=view1>





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