



Fuseless motor starter Reversing operation 600VAC Size S0 0.45-0.63A  
 110/120VAC 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	
• of the supplied contactor	<a href="#">3RT2023-1AK60</a>
• of the supplied circuit-breakers	<a href="#">3RV2011-0GA10</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 coordination	2
Substance Prohibition (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1
Net Weight	1.73 kg
<b>Ambient conditions</b>	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-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	
• 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	180 W		
• at 690 V rated value	250 W		
<b>Control circuit/ Control</b>			
<b>control supply voltage at AC</b>			
• at 50 Hz rated value	110 V		
• at 50 Hz rated value	88 ... 121 V		
• at 60 Hz rated value	120 V		
• at 60 Hz rated value	96 ... 132 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 (Iq)</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>			
<b>type of electrical connection for main current circuit</b>	screw-type terminals		
<b>type of connectable conductor cross-sections for main contacts</b>	1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> )		
stranded			
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		
Electrical Safety			
<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>			
<b>Environment</b>	<b>General Product Approval</b>	<b>For use in hazardous locations</b>	<b>other</b>

other

[Confirmation](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RA2220-0GD23-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GD23-0AK6>

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

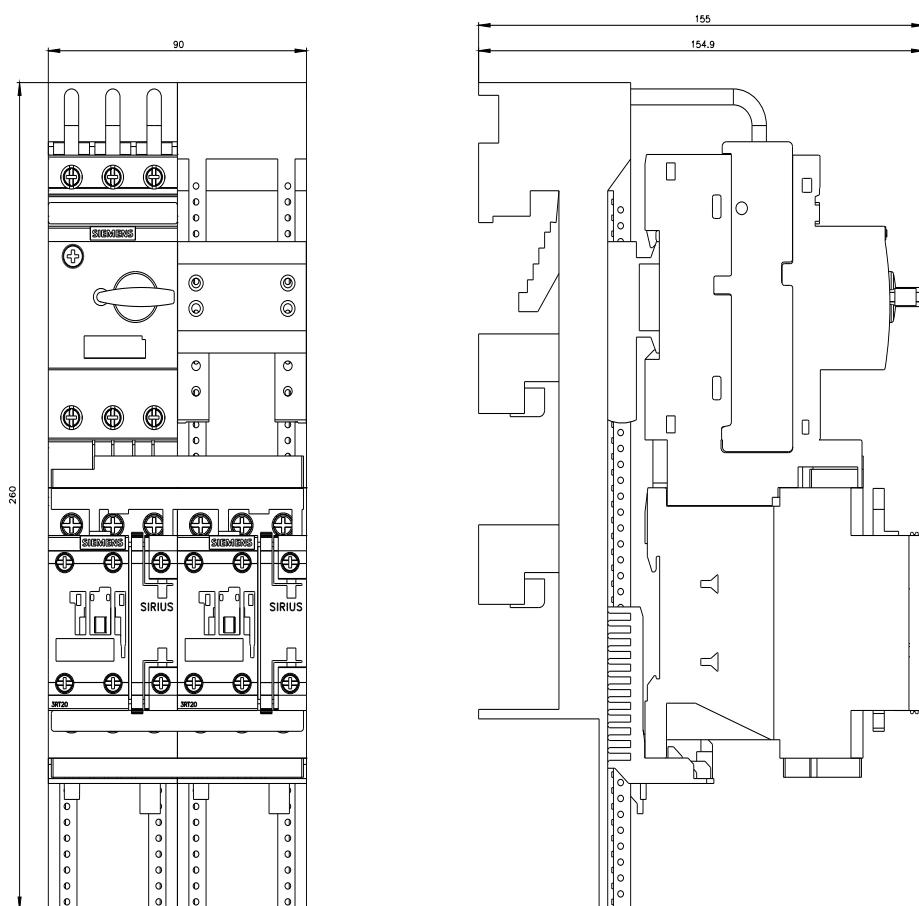
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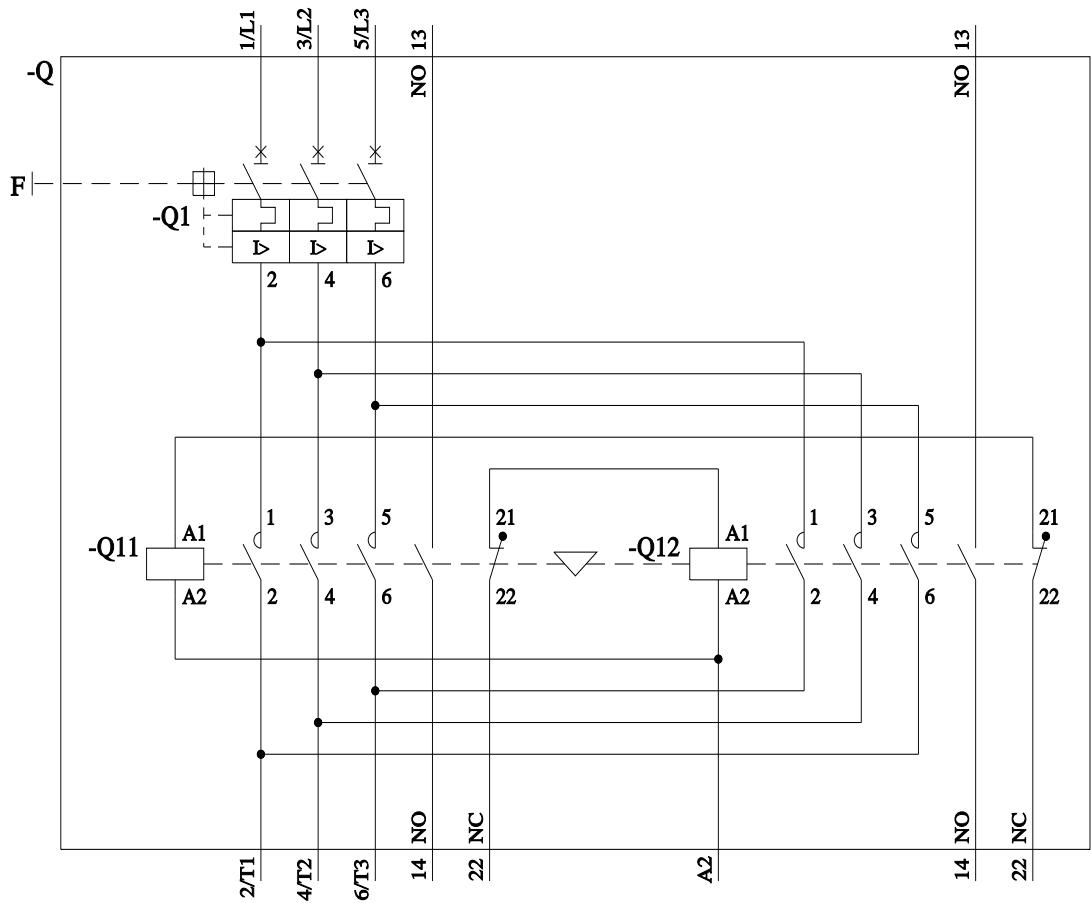
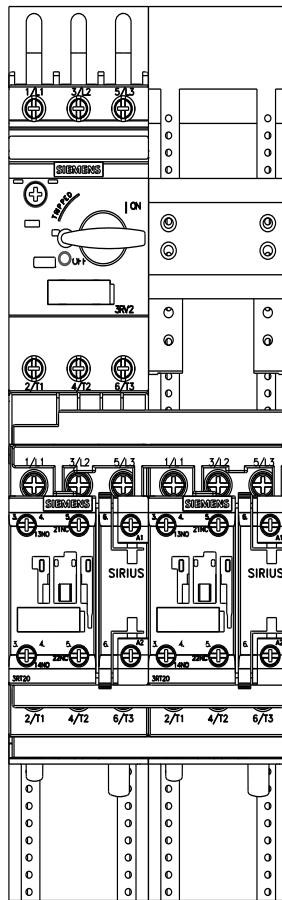
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-0GD23-0AK6>

Characteristic curves

[https://curves.samaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.samaris.siemens.com/curves/<mmp_prod_noCOMP=)





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