



Combination Starter Reversing FLA Range 1.1-1.6A 3 Pole 24VDC Coil S0  
Open Type 1NO <(>&<)> 1NC Aux

<b>product brand name</b>	SIRIUS
<b>product designation</b>	non-fused motor starter 3RA2
<b>design of the product</b>	reversing starter
<b>manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• of the supplied contactor</li> </ul>	3RT2023-1BB40
<ul style="list-style-type: none"> <li>• of the supplied circuit-breakers</li> </ul>	3RV2011-1AA10
<ul style="list-style-type: none"> <li>• of the supplied RH assembly kit</li> </ul>	3RA2923-1BB1
<ul style="list-style-type: none"> <li>• of the supplied busbar adapter</li> </ul>	3RA2922-1AA00
<ul style="list-style-type: none"> <li>• of the supplied link module</li> </ul>	3RA2921-1BA00
<ul style="list-style-type: none"> <li>• of the supplied standard mounting rail adapter</li> </ul>	3RA2922-1AA00
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S00
<b>size of load feeder</b>	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 kV
shock resistance acc. to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	10 000 000
<b>type of assignment</b>	2
<b>Ambient conditions</b>	
<ul style="list-style-type: none"> <li>• ambient temperature during operation</li> </ul>	-20 ... +60 °C
<ul style="list-style-type: none"> <li>• ambient temperature during storage</li> </ul>	-50 ... +80 °C
<ul style="list-style-type: none"> <li>• ambient temperature during transport</li> </ul>	-55 ... +80 °C
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	1.1 ... 1.6 A
<ul style="list-style-type: none"> <li>• operating voltage rated value</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• operating voltage at AC-3 rated value maximum</li> </ul>	690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	1.5 A
operating power at AC-3	
<ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>	550 W
<ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>	550 W

<ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>	1 100 W
<b>Control circuit/ Control</b>	
<b>control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 V
<b>holding power of magnet coil at DC</b>	5.9 W
<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	20.8 A
<b>UL/CSA ratings</b>	
<b>full-load current (FLA) for 3-phase AC motor</b>	
<ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>	1.6 A 1.3 A
<b>yielded mechanical performance [hp]</b>	
<ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 230 V rated value</li> </ul> </li> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>	0.1 hp 0.75 hp 0.75 hp
<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>	
<ul style="list-style-type: none"> <li>• at 400 V acc. to IEC 60947-4-1 rated value</li> </ul>	153 000 A
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	vertical
<b>fastening method</b>	snap-on fastening on 35 mm standard rail
<b>height</b>	265 mm
<b>width</b>	90 mm
<b>depth</b>	130 mm
<b>required spacing</b>	
<ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>	10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm
<b>Connections/ Terminals</b>	
type of electrical connection for main current circuit	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• for main contacts stranded</li> <li>• at AWG cables for main contacts</li> </ul>	1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> ) 2x (16 ... 12), 2x (14 ... 8)
<ul style="list-style-type: none"> <li>• connectable conductor cross-section for main contacts finely stranded with core end processing</li> </ul>	1 ... 6 mm <sup>2</sup>
<b>Safety related data</b>	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures with high demand rate acc. to SN 31920	73 %

protection class IP on the front acc. to IEC 60529	IP20		
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front		
Certificates/ approvals			
General Product Approval	For use in hazardous locations	Declaration of Conformity	other



[Confirmation](#)

#### Further information

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=3RA2220-1AB23-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1AB23-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1AB23-0BB4>

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

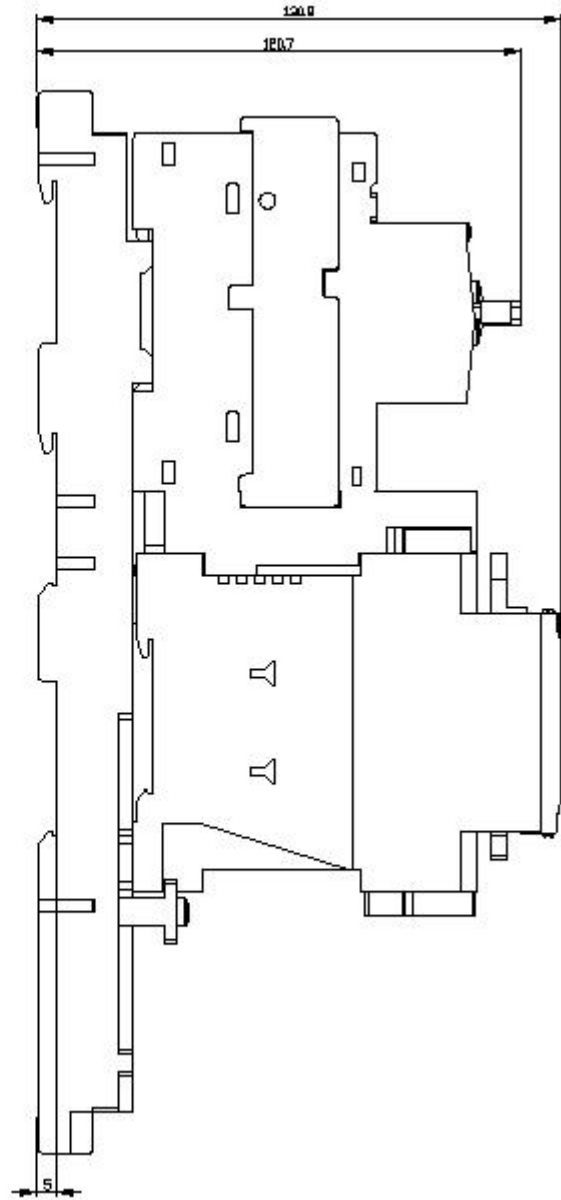
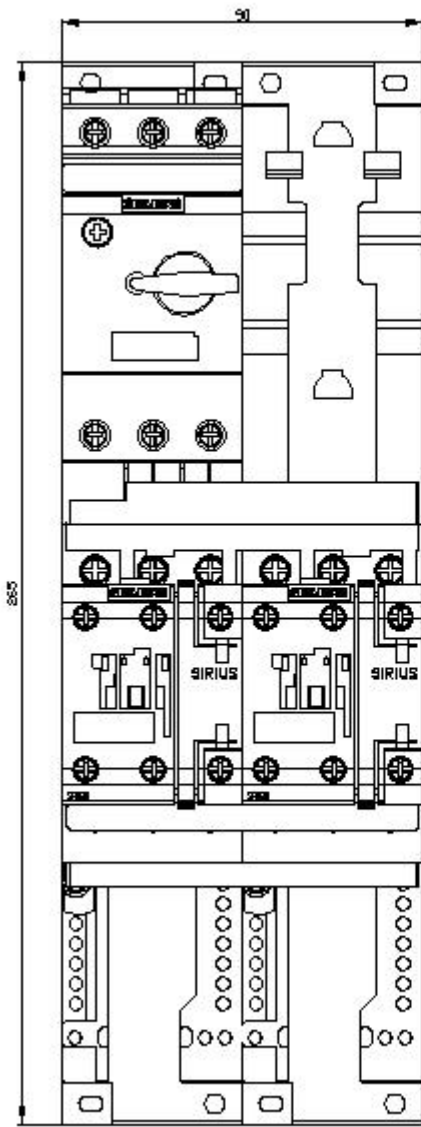
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-1AB23-0BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1AB23-0BB4&lang=en)

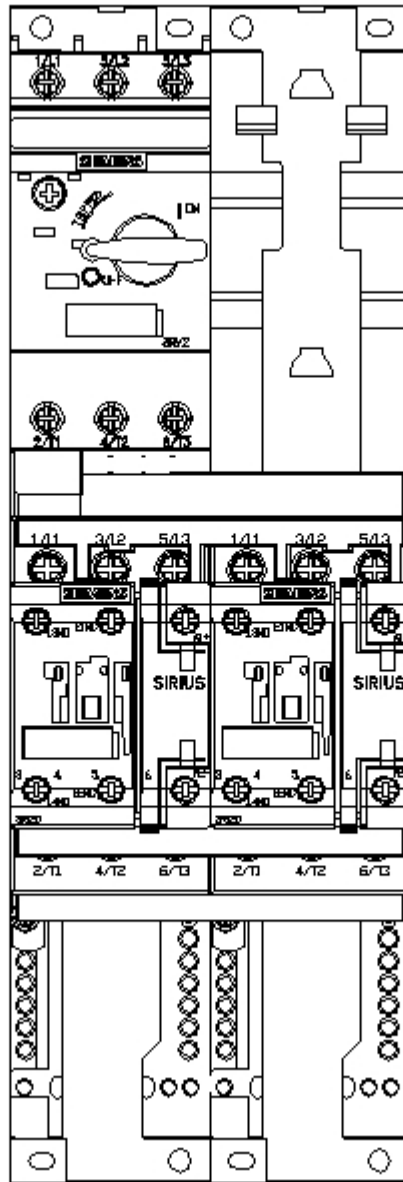
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

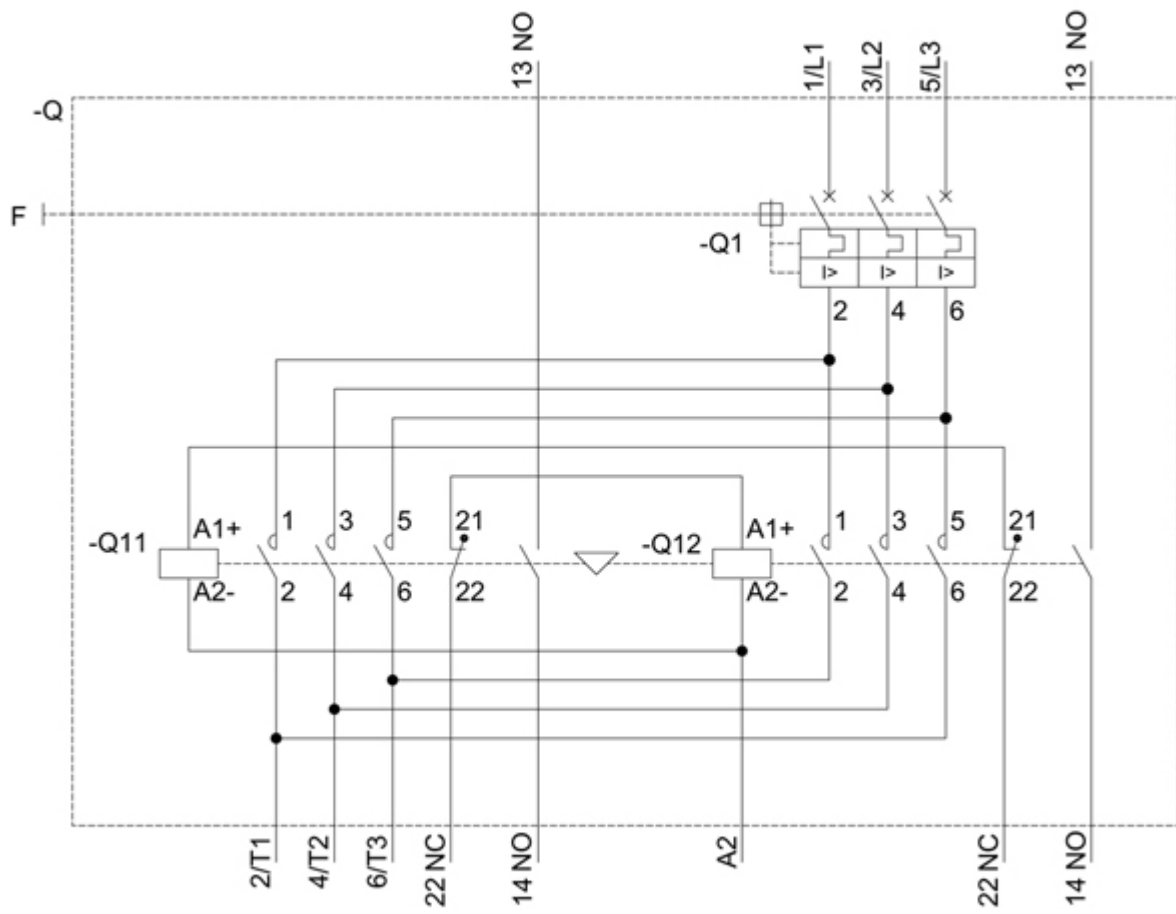
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1AB23-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1AB23-0BB4&objecttype=14&gridview=view1>







last modified:

12/15/2020 