



Fuseless motor starter Reversing operation 600VAC Size S0 0.45-0.63A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

<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>	
• of the supplied contactor	3RT2023-1AP60
• of the supplied circuit-breakers	3RV2011-0GA10
• of the supplied RH assembly kit	3RA2923-1BB1
• of the supplied busbar adapter	3RA2922-1AA00
• of the supplied link module	3RA2921-1AA00
• of the supplied standard mounting rail adapter	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
Substance Prohibitance (Date)	01.03.2017 00:00:00
<b>Ambient conditions</b>	
• ambient temperature during operation	-20 ... +60 °C
• ambient temperature during storage	-50 ... +80 °C
• ambient temperature during transport	-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>	0.45 ... 0.63 A
• operating voltage rated value	690 V
• operating voltage at AC-3 rated value maximum	690 V
<b>operating frequency rated value</b>	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

<ul style="list-style-type: none"><li>• at 500 V rated value</li><li>• at 690 V rated value</li></ul>	180 W 250 W		
Control circuit/ Control			
control supply voltage at AC <ul style="list-style-type: none"><li>• at 50 Hz rated value</li><li>• at 50 Hz rated value</li><li>• at 60 Hz rated value</li><li>• at 60 Hz rated value</li></ul>	220 V 176 ... 242 V 240 V 192 ... 264 V		
apparent holding power of magnet coil at AC	7.2 V·A		
inductive power factor with the holding power of the coil	0.28		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	2		
number of NO contacts for auxiliary contacts	2		
Protective and monitoring functions			
trip class	CLASS 10		
design of the overload release	thermal (bimetallic)		
response value current of instantaneous short-circuit trip unit	8.19 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
conditional short-circuit current (I <sub>q</sub> ) <ul style="list-style-type: none"><li>• at 400 V acc. to IEC 60947-4-1 rated value</li></ul>	153 000 A		
Installation/ mounting/ dimensions			
mounting position	vertical		
fastening method	snap-on fastening on 35 mm standard rail		
height	265 mm		
width	90 mm		
depth	120 mm		
required spacing <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		
Connections/ Terminals			
type of electrical connection for main current circuit	screw-type terminals		
type of connectable conductor cross-sections <ul style="list-style-type: none"><li>• for main contacts stranded</li><li>• at AWG cables for main contacts</li></ul>	1 ... 10 mm², 2x (2.5 ... 6 mm²) 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 mm²		
Safety related data			
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	For use in	Declaration of	other

Approval	hazardous locations	Conformity	
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[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=3RA2220-0GB23-0AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-0GB23-0AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GB23-0AP6>

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

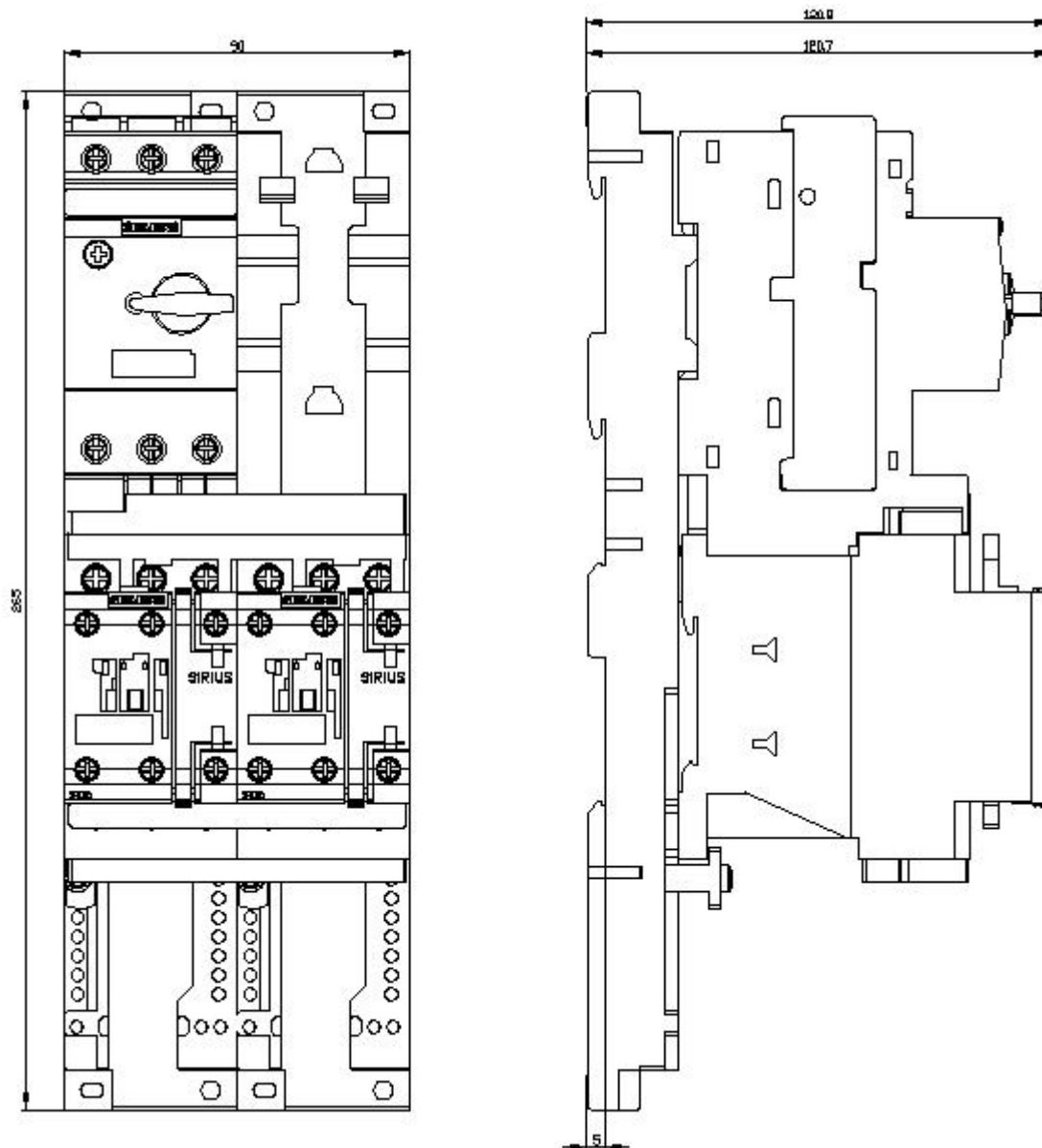
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-0GB23-0AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-0GB23-0AP6&lang=en)

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

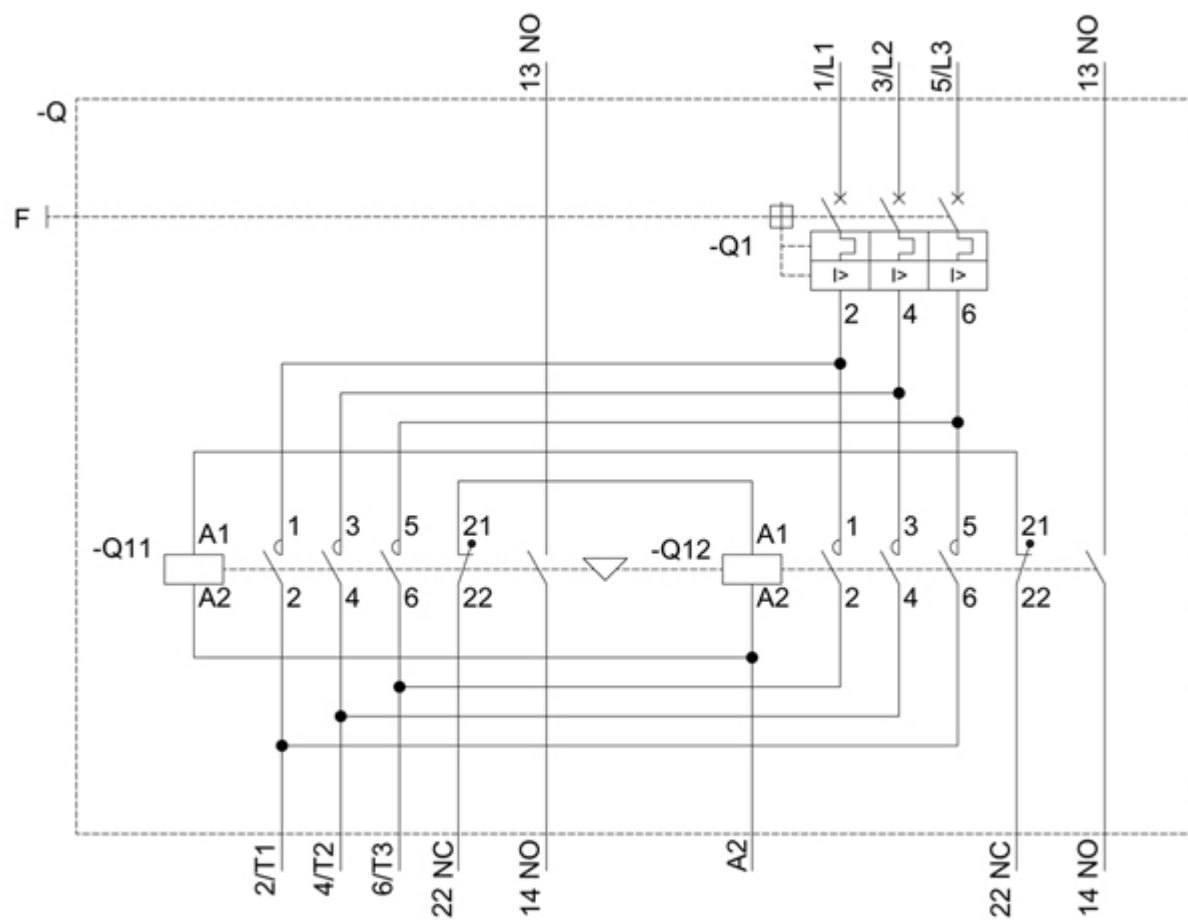
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GB23-0AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-0GB23-0AP6&objecttype=14&gridview=view1>







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12/15/2020