# SIEMENS

## Data sheet

## 3RM1202-1AA04

Motor starter SIRIUS 3RM1 Reversing starter 500 V; 0.4-2.0 A; 24 V DC Screw connection system



Figure similar

General technical data			
Product brand name	SIRIUS		
Product category	Motor starter		
Product designation	Reversing starter		
Design of the product	with electronic overload protection		
Trip class	CLASS 10A		
Protection class IP	IP20		
Suitability for operation Device connector 3ZY12	Yes		
Product function Intrinsic device protection	Yes		
Type of the motor protection	solid-state		
Installation altitude at height above sea level maximum	4 000 m		
Ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
<ul> <li>during transport</li> </ul>	-40 +70 °C		
<ul> <li>during storage</li> </ul>	-40 +70 °C		
Relative humidity during operation	10 95 %		
Air pressure acc. to SN 31205	900 1 060 hPa		

Shock resistance	6g / 11 ms		
Vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz		
Surge voltage resistance rated value	6 kV		
Insulation voltage rated value	500 V		
Mechanical service life (switching cycles) typical	30 000 000		
Conducted interference			
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV		
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>	2 kV		
• due to burst acc. to IEC 61000-4-4	3 kV / 5 kHz		
<ul> <li>due to high-frequency radiation acc. to IEC</li> <li>61000-4-6</li> </ul>	10 V		
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge		
Field-bound HF-interference emission acc. to CISPR11	Class B for the domestic, business and commercial environments		
Conducted HF-interference emissions acc. to CISPR11	Class B for the domestic, business and commercial environments		
maximum permissible voltage for safe isolation			
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V		
<ul> <li>between control and auxiliary circuit</li> </ul>	250 V		
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	Q		
Equipment marking acc. to DIN EN 61346-2	Q		
Safety related data			
Protection against electrical shock	finger-safe		
Main circuit			
Number of poles for main current circuit	3		
Operating voltage rated value	48 500 V		
Relative symmetrical tolerance of the operating voltage	10 %		
Operating frequency			
• 1 rated value	50 Hz		
• 2 rated value	60 Hz		
Relative symmetrical tolerance of the operating frequency	10 %		
Operating current at AC-53a at 400 V at ambient temperature 40 °C rated value	2 A		
Minimum load [% of IM]	20 %		
Power loss [W] typical	0.3 W		
Adjustable pick-up value current of the current- dependent overload release	0.4 2 A		
Ampacity when starting maximum	16 A		

Operating power for three-phase motors at 400 V at 50 Hz	0.09 0.75 kW		
Operating frequency maximum	1 1/s		
Control circuit/ Control			
Type of voltage of the control supply voltage	DC		
Control supply voltage 1			
<ul> <li>at DC rated value</li> </ul>	24 V		
Operating range factor control supply voltage rated			
value			
• at DC	0.8 1.25		
Control current			
• at DC			
— in standby mode	25 mA		
— during operation	70 mA		
— when switching on	150 mA		
Input voltage at digital input			
● for signal <1>			
— at DC	15 30 V		
● with signal <0>			
— at DC	0 5 V		
Input current at digital input	-		
● for signal <1>			
— at DC	11 mA		
● with signal <0>			
— at DC	1 mA		
Switch-on delay time	60 90 ms		
Off-delay time	60 90 ms		
Auxiliary circuit			
Number of CO contacts for auxiliary contacts			
Design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA		
Operating current of auxiliary contacts			
• at AC-15 at 230 V maximum	3 A		
• at DC-13 at 24 V maximum	1 A		
Installation/ mounting/ dimensions			
Mounting position	vertical, horizontal, standing		
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail		
Width	22.5 mm		
Height	100 mm		
Depth	141.6 mm		
Connections/Terminals			

Type of electrical connection	screw-type terminals			
• for main current circuit		screw-type terminals		
• for auxiliary and control current circuit	screw-type terminals			
Type of connectable conductor cross-sections for main contacts				
• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			
<ul> <li>finely stranded</li> </ul>				
- with core end processing	1x (0,5 4 mm²), 2x (0,5 1,5 mm²)			
Type of connectable conductor cross-sections at AWG conductors for main contacts	1x (20 12), 2x (20 14)			
Type of connectable conductor cross-sections for				
auxiliary contacts				
• solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)			
<ul> <li>finely stranded</li> </ul>				
— with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)			
Type of connectable conductor cross-sections at	1x (20 14), 2x (18 16)			
AWG conductors for auxiliary contacts				
JL ratings				
Full-load current (FLA) for three-phase AC motor at 480 V rated value	2 A			
Yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 230 V rated value	0.125 hp			
<ul> <li>for three-phase AC motor</li> </ul>				
— at 200/208 V rated value	0.333 hp			
— at 220/230 V rated value	0.333 hp			
— at 460/480 V rated value	0.75 hp			
Certificates/approvals				
General Product Approval		Declaration of	Test	
		Conformity	Certificates	
			Type Test	
	(VL)		Certificates/Test Report	
CCC CSA GOST		EG-Konf.	report	
	52			
Test other				
Certificates				

Special Test Certificate Confirmation

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

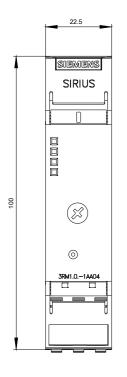
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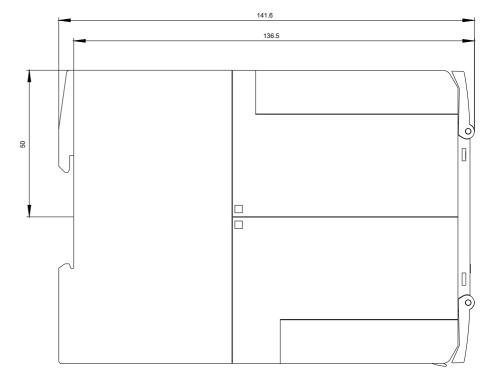
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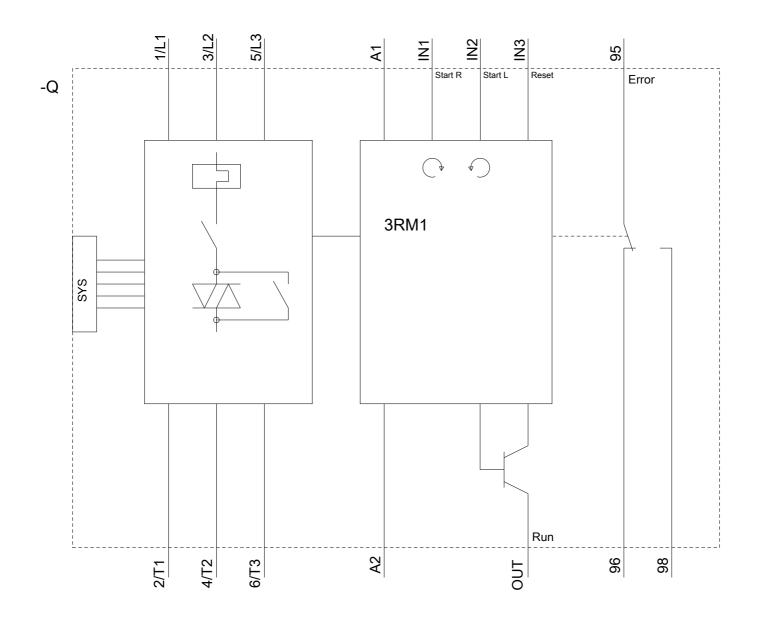
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1202-1AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RM1202-1AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RM1202-1AA04&lang=en







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