## **SIEMENS**

Data sheet 3RM1202-3AA14



MOTORSTARTER SIRIUS 3RM1 REVERSING STARTER 500 V; 0.4-2.0 A; 110-230 V AC CONTROL CIRCUIT PUSH-IN MAIN CIRCUIT SCREW TERMINAL

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		Motor starter
Design of the product		with reversing functionality and electronic overload
		protection
Trip class		CLASS 10A
Protection class IP		IP20
Suitability for operation Device connector 3ZY12		No
Product function Intrinsic device protection		Yes
Type of the motor protection		solid-state
Product function Adjustable current limitation		Yes
Installation altitude at height above sea level	m	4 000
maximum		
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 +60
<ul> <li>during transport</li> </ul>	°C	-40 +70
<ul><li>during storage</li></ul>	°C	-40 +70
Shock resistance		6g / 11 ms
Vibration resistance		1 6 Hz, 15 mm; 20 m/s², 500 Hz
Surge voltage resistance Rated value	kV	6
Insulation voltage Rated value	V	500
Mechanical service life (switching cycles) typical		30 000 000
Conducted interference due to conductor-conductor		1 kV
surge acc. to IEC 61000-4-5		
Conducted interference due to burst acc. to IEC 61000-4-4		3 kV / 5 kHz

	10 V
	4 kV contact discharge / 8 kV air discharge
	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
V	500
V	250
_	Q
_	Q
	finger-safe
	3
V	3 500
V	
V	
	500
Hz	500
Hz Hz	500 50 60
Hz Hz A	500 50 60 2
Hz Hz A %	500 50 60 2 20
Hz Hz A %	500 50 60 2 20 0.3
Hz Hz A % W	500 50 60 2 20 0.3 0.4 2
Hz Hz A % W A	500 50 60 2 20 0.3 0.4 2 0.09 0.75

value

for DCwith AC

— at 50 Hz

— at 60 Hz

— at 50 Hz

Operating range factor control supply voltage rated

110 ... 230

110 ... 230

0.85 ... 1.1

0.85 ... 1.1

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— at 60 Hz		1.1 0.85
Control current		
• with AC		
— at 230 V		
— in standby mode	mA	9
<ul><li>during operation</li></ul>	mA	22
— when switching on	mA	33
— at 110 V		
— in standby mode	mA	16
<ul><li>during operation</li></ul>	mA	36
— when switching on	mA	55
• for DC		
— in standby mode	mA	6
<ul><li>during operation</li></ul>	mA	30
— when switching on	mA	15
Input voltage at digital input	_	
• for signal <1>		
— for DC	V	79 121
— with AC	V	93 253
• with signal <0>		
— with AC	V	0 40
— for DC	V	0 40
Input current at digital input		
• for signal <1>		
— with AC at 230 V	mA	2.3
— with AC at 110 V	mA	1.1
— for DC	mA	1.5
• with signal <0>		
— with AC at 230 V	mA	0.4
— with AC at 110 V	mA	0.2
— for DC	mA	0.25
Switch-on delay time	ms	60 90
OFF-delay time	ms	60 90
Auxiliary circuit:		
Number of CO contacts for auxiliary contacts		1
Design of the switching contact as NO contact for signaling function		Electronic
Operating current of the auxiliary contacts		
• at AC-15 maximum	Α	3
• at DC-13 maximum	Α	1
nstallation/ mounting/ dimensions:		

mounting position		vertical, horizontal, standing
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	100
Depth	mm	141.6

Connections/ Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	PUSH-IN connection (spring-loaded connection)
Type of connectable conductor cross-section for	
main contacts	
• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
<ul><li>finely stranded</li></ul>	
<ul><li>— with core end processing</li></ul>	1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
Type of connectable conductor cross-section for	1x (20 12), 2x (20 14)
AWG conductors for main contacts	
Type of connectable conductor cross-section for	
auxiliary contacts	
• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
<ul><li>finely stranded</li></ul>	
<ul><li>— with core end processing</li></ul>	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
- without core end processing	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
Type of connectable conductor cross-section for	1x (20 16), 2x (20 16)
AWG conductors for auxiliary contacts	

UL ratings:		
Full-load current (FLA) for three-phase AC motor at	Α	2
480 V Rated value		
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor</li> </ul>		
— at 230 V Rated value	metric	0.125
	hp	
<ul> <li>for three-phase AC motor</li> </ul>		
— at 200/208 V Rated value	metric	0.333
	hp	
— at 220/230 V Rated value	metric	0.333
	hp	
— at 460/480 V Rated value	metric	0.75
	hp	

## Certificates/ approvals:

## **General Product Approval**

other







Environmental Confirmations

Confirmation

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

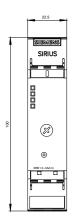
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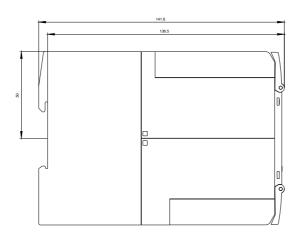
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM12023AA14

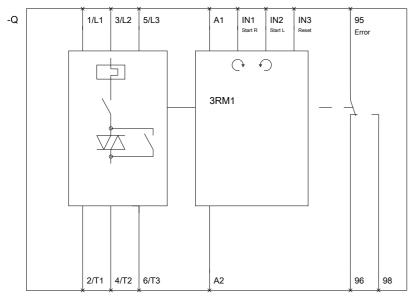
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RM12023AA14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM12023AA14&lang=en">http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM12023AA14&lang=en</a>







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