## **SIEMENS**

Product data sheet 3RM1201-1AA14



MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER 500 V; 0,1-0,5 A; 110-230 V AC SCREW CONNECTION SYSTEM

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 use / 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 a height over sea level / maximum	m	4,000
Ambient temperature		
during operating	°C	-25 +60
during transport	°C	-40 +70
during storage	°C	-40 +70
Resistance against shock		6g / 11 ms
Resistance against vibration		1 6 Hz, 15 mm; 20 m/s², 500 Hz
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	500

Mechanical operating cycles as operating time / typical		30,000,000
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		3 kV / 5 kHz
Conducted interference as high-frequency radiation according to IEC 61000-4-6		10 V
Electrostatic discharge / according to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound HF-interference emission / according to CISPR11		Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Conductor-bound HF-interference emission / according to CISPR11		Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Maximum permissible voltage for safe disconnection		
between main circuit and auxiliary circuit	V	500
between control and auxiliary circuit	V	250
Reference code		
<ul> <li>according to DIN 40719 extended according to IEC 204-2 / according to IEC 750</li> </ul>		Q
<ul> <li>according to DIN EN 61346-2</li> </ul>		Q

Protection against electrical shock  Main circuit:  Number of poles / for main current circuit  Operating voltage / rated value / maximum  V 500  Operating frequency  1 Hz 50  2 Hz 60  Operating current / at 400 V / for AC / rated value  A 0.5  Minimum load in % of L_M  Active power loss / typical  Adjustable response current  • of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V  • at 50 Hz  finger-safe  finger-safe  finger-safe   finger-safe  finger-safe   finger-safe   finger-safe   finger-safe   finger-safe   finger-safe   finger-safe   finger-safe  finger-safe    finger-safe   finger-safe   finger-safe   finger-safe   finger-safe   finger-safe   finger-safe    finger-safe    finger-safe     finger-safe    finger-safe     finger-safe    finger-safe    finger-safe    finger-safe    finger-safe    finger-safe     finger-safe     finger-safe      finger-safe     finger-safe      finger-safe      finger-safe       finger-safe       finch  finger-safe      finger-safe       final current  finger-safe      finger-safe      final current  final current  finger-safe     final current  fi	Safety related data:		
Number of poles / for main current circuit  Operating voltage / rated value / maximum  V 500  Operating frequency  1 Hz 50  2 Hz 60  Operating current / at 400 V / for AC / rated value  A 0.5  Minimum load in % of I_M  Active power loss / typical  Adjustable response current  • of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	Protection against electrical shock		finger-safe
Operating voltage / rated value / maximum  Operating frequency  1	Main circuit:		
Operating frequency  • 1  • 2  Hz  60  Operating current / at 400 V / for AC / rated value  A  0.5  Minimum load in % of I_M  Active power loss / typical  Adjustable response current  • of the current-dependent overload release  A  0.1 0.5  Service power / for three-phase servomotors / at 400 V	Number of poles / for main current circuit		3
• 1 • 2  • 2  • 4  Operating current / at 400 V / for AC / rated value  A  O.5  Minimum load in % of I_M  Active power loss / typical  Adjustable response current • of the current-dependent overload release  A O.1 0.5  Service power / for three-phase servomotors / at 400 V	Operating voltage / rated value / maximum	V	500
+ 2  Operating current / at 400 V / for AC / rated value  A  0.5  Minimum load in % of I_M  Active power loss / typical  Adjustable response current  • of the current-dependent overload release  A  O.1 0.5  Service power / for three-phase servomotors / at 400 V	Operating frequency		
Operating current / at 400 V / for AC / rated value  A 0.5  Minimum load in % of I_M  Active power loss / typical  Adjustable response current  • of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	• 1	Hz	50
Minimum load in % of I_M  Active power loss / typical  Adjustable response current  of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	• 2	Hz	60
Active power loss / typical  Adjustable response current  of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	Operating current / at 400 V / for AC / rated value	А	0.5
Adjustable response current  • of the current-dependent overload release  A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	Minimum load in % of I_M	%	20
• of the current-dependent overload release A 0.1 0.5  Service power / for three-phase servomotors / at 400 V	Active power loss / typical	W	0.02
Service power / for three-phase servomotors / at 400 V	Adjustable response current		
	of the current-dependent overload release	Α	0.1 0.5
• at 50 Hz kW 0 0.12	Service power / for three-phase servomotors / at 400 V		
	• at 50 Hz	kW	0 0.12
Operating cycles / maximum 1/s 1	Operating cycles / maximum	1/s	1

Control circuit/ Control:		
Voltage type / of control feed voltage		AC/DC
Control supply voltage / 1		
• for DC / rated value	V	110

• at 50 Hz		
• for AC	V	110 230
• at 60 Hz		
• for AC	V	110 230
Operating range factor control supply voltage rated value		
• for DC		0.85 1.1
• at 50 Hz		
• for AC		0.85 1.1
• at 60 Hz		
• for AC		1.1 0.85
Control current		
• with AC		
• at 230 V		
<ul> <li>with standby operating mode</li> </ul>	mA	9
during operation	mA	22
when switching on	mA	33
• at 110 V		
<ul> <li>with standby operating mode</li> </ul>	mA	16
during operation	mA	36
on switching on	mA	55
• with DC		
• in standby mode	mA	6
during operation	mA	30
on switching on	mA	15
Input voltage / at the digital input		
• with signal <1>		
• for DC	V	79 121
• with AC	V	93 253
• with signal <0>		
• with AC	V	0 40
• with DC	V	0 40
Input voltage / at digital input		
• with signal <1>		
• with AC		
• at 230 V	mA	2.3
• at 110 V	mA	1.1
• with DC	mA	1.5
• with signal <0>		
• with AC		
• at 230 V	mA	0.4

• at 110 V	mA	0.2
• with DC	mA	0.25
ON-delay time	ms	60 90
OFF-delay time	ms	60 90
Auxiliary circuit:		
Number of changeover contacts / for auxiliary contacts		1
Design of the switching contact / as make contact / for reporting function		Electronic
Operating current / of the auxiliary contacts		
• at AC-15	Α	3
• at DC-13	Α	1
Installation/ 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:		
Design of the electrical connection		
• for main current circuit		screw-type terminals
for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
• finely stranded		
<ul> <li>with conductor end processing</li> </ul>		1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
for AWG conductors		1x (20 12), 2x (20 14)
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid		1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
• finely stranded		
with conductor end processing		1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
• for AWG conductors		1x (20 14), 2x (18 16)
UL ratings:		
Full-load current (FLA) / for 3-phase motor / at 480 V / rated	A	0.5

value

## **Certificates/ approvals:**

## **General Product Approval**

Declaration of Conformity

**Test Certificates** 











Type Test
Certificates/Test
Report

other

Environmental Confirmations

## **Further information:**

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

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

Industry Mall (Online ordering system)

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

Cax online generator

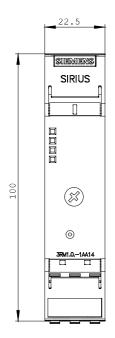
http://www.siemens.com/cax

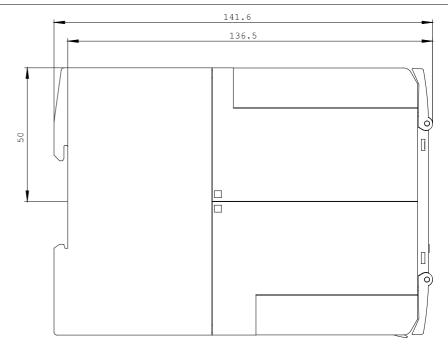
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

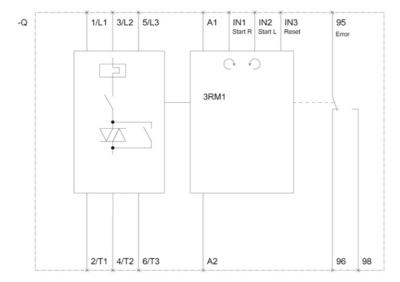
http://support.automation.siemens.com/WW/view/en/3RM1201-1AA14/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RM1201-1AA14







last change: Jul 28, 2014