SIEMENS

Data sheet 3RM1001-3AA04



MOTORSTARTER SIRIUS 3RM1 DIRECT STARTER 500 V; 0.1-0.5 A; 24 V DC CONTROL CIRCUIT PUSHIN MAIN CIRCUIT SCREW TERMINAL

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		Motor 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
Product function Adjustable current limitation		Yes
Installation altitude at height above sea level	m	4 000
maximum		
Ambient temperature		
 during operation 	°C	-25 + 60
during transport	°C	-40 + 70
during storage	°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

CISPR11 environments	radiation acc. to IEC 61000-4-6		10 V
CISPR11 Conducted HF-interference emissions acc. to CISPR11 maximum permissible voltage for safe isolation • between main and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit V 500 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Q Safety related data: Protection against electrical shock Main circuit: Number of poles for main current circuit Operating voltage Rated value maximum V 500 Operating frequency • 1 Rated value • 2 Rated value Operating current with AC at 400 V Rated value Active power loss typical Adjustable response value current of the current-dependent overload release Operating frequency maximum I/s Operating frequency maximum I/s Operating frequency maximum I/s Operating requency maximum I/s Operating requency maximum I/s Operating requency maximum I/s Operating requency maximum I/s Operating frequency maximum I/s Operating requency maximum I/s Ocountrol circuit/ Control: Type of voltage of the control supply voltage rated value • for DC Control current • for DC Control current • for DC Control current • for DC	Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
CISPR11 maximum permissible voltage for safe isolation • between main and auxiliary circuit • between control and auxiliary circuit V 500 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 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 Operating requency • 1 Rated value • 2 Rated value • 2 Rated value Operating current with AC at 400 V Rated value Minimum load in % of LM Active power loss typical Active power loss typical Adjustable response value current of the current-dependent overload release Operating frequency maximum 1/s Operating frequency maximum 1/s Deperating frequency maximum 1/s 1 Control circuit/ Controls Type of voltage of the control supply voltage Control supply voltage 1 • for DC Control current • for DC			Class B for the domestic, business and commercial environments
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Active power loss typical Adjustable response value current of the current-dependent overload release Operating power for three-phase motors at 400 V at 50 Hz Operating frequency maximum 1/s 1 Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage 1 • for DC Rated value • for DC Control current • for DC Control current • for DC	Operating current with AC at 400 V Rated value	Α	0.5
Adjustable response value current of the current- dependent overload release Operating power for three-phase motors at 400 V at 50 Hz Operating frequency maximum 1/s 1/s Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage 1 • for DC Rated value • for DC Control current • for DC Control current • for DC	Minimum load in % of I_M	%	20
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value ● for DC 0.8 1.25 Control current ● for DC	 for DC Rated value 	V	24
● for DC 0.8 1.25 Control current ● for DC			
Control current • for DC			0.0 4.05
• for DC			0.8 1.25
— in standby mode mA 25			05
	•		
— during operation mA 70	· .	mA	70
— when switching on mA 150	•	mA	150
Input voltage at digital input	Input voltage at digital input		
● for signal <1>	● for signal <1>		

10 V

Conducted interference due to high-frequency

V	15 30
V	0 5
mA	11
mA	1
ms	60 90
ms	60 90
	1
	Electronic
Α	3
Α	1
	mA mA ms ms

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:	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	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)
• finely stranded	
— with core end processing	1x (0,5 2,5 mm²), 2x (0,5 1,5 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts	1x (20 12), 2x (20 14)
Type of connectable conductor cross-section for auxiliary contacts	
• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• finely stranded	
— with core end processing	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 480 V Rated value

Certificates/ approvals:

General Product Approval

other





Environmental Confirmations

0.5

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

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM10013AA04

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

http://support.automation.siemens.com/WW/view/en/3RM10013AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM10013AA04&lang=en





