SIEMENS

Data sheet

3RM1001-2AA04



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		3 kV / 5 kHz
61000-4-4		

Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6		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		
 between main and auxiliary circuit 	V	500
 between control and auxiliary circuit 	V	250
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
Aain circuit:		
Number of poles for main current circuit		3
Operating voltage Rated value maximum	V	500
Operating frequency		
1 Rated value	Hz	50
• 2 Rated value	Hz	60
Operating current with AC at 400 V Rated value	A	0.5
Minimum load in % of I_M	%	20
Active power loss typical	W	0.02
Adjustable response value current of the current- dependent overload release	A	0.1 0.5
Operating power for three-phase motors at 400 V at 50 Hz	kW	0 0.12
Operating frequency maximum	1/s	1
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC Rated value	V	24
Operating range factor control supply voltage rated value		
• for DC		0.8 1.25
Control current		
• for DC		
— in standby mode	mA	25
— during operation	mA	70
— when switching on	mA	150
Input voltage at digital input		
• for signal <1>		

— for DC	V	15 30
● with signal <0>		
— for DC	V	05
Input current at digital input		
● for signal <1>		
— for DC	mA	11
● with signal <0>		
— for DC	mA	1
Switch-on delay time	ms	60 90
OFF-delay time	ms	60 90

Auvilian	/ CIRCUILT	
Auxiliary	, cii cuit.	

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	А	3
• at DC-13 maximum	А	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:	
Type of electrical connection	
 for main current circuit 	PUSH-IN connection (spring-loaded connection)
 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)
 finely stranded 	
— with core end processing	1x (0.5 2.5 mm²)
- without core end processing	1x (0.5 4 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts	1x (20 12)
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 AWG conductors fo	e conductor cross-seo r auxiliary contacts	ction for	1x (20 .	16), 2x (20 16)	
JL ratings: Full-load current (Fl 480 V Rated value	LA) for three-phase A	C motor at A	0.5		
ertificates/ approv General Produc				Declaration of Conformity	Test Certificates
	GOST	UL	EHC	CE EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>
Test Certificates	other				
Special Test Certificate	Environmental Confirmations	Confirmation			

urther 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=3RM10012AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RM10012AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM10012AA04&lang=en



