SIEMENS

Data sheet 3RM1101-2AA04



MOTOR STARTER SIRIUS 3RM1 DIRECT STARTER SAFETY 500 V; 0,1 - 0,5 A; 24 V DC PUSH-IN TYPE CONNECTION SYSTEM

Figure similar

General technical data: product brand name		SIRIUS				
Product designation		Motor starter				
Design of the product		with electronic overload protection and safety-related shutdown				
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	2 000				
maximum						
Ambient temperature						
during operation	°C	-25 +60				
during transport	°C	-40 + 70				
during storage	°C	-40 +7 0				
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		2 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		10 V		
radiation acc. to IEC 61000-4-6				
Electrostatic discharge acc. to IEC 61000-4-2		6 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:				
Safety Integrity Level (SIL) acc. to IEC 61508		SIL3		
Performance level (PL) acc. to EN ISO 13849-1		е		
Category acc. to EN ISO 13849-1		4		
T1 value for proof test interval or service life acc. to IEC 61508	у	20		
PFHD with high demand rate acc. to EN 62061	1/h	0.00000002		
Protection against electrical shock		finger-safe		
Safety device type acc. to IEC 61508-2		Туре В		
OFF-delay time with safety-related request when switched off via control inputs maximum	ms	65		
OFF-delay time with safety-related request when switched off via supply voltage maximum	ms	120		
Main 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	Α	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	Α	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				

V	24		
	0.8 1.25		
mA	13		
mA	57		
mA	150		
V	15 30		
V	0 5		
mA	8		
mA	1		
ms	90 120		
ms	40 55		
	1		
	1 Electronic		
A			
A A	Electronic		
	Electronic 3		
	Electronic 3		
	Electronic 3 1		
	Electronic 3 1 vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard		
A	Series and snap-on mounting onto 35 mm standard mounting rail		
A	Series and snap-on mounting onto 35 mm standard mounting rail 22.5		
A mm mm	Secretarian Secret		
A mm mm	Section 2 Vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100		
A mm mm	Secretarian Secret		
A mm mm	Series and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6		
A mm mm	Vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6 PUSH-IN connection (spring-loaded connection)		
A mm mm	Secretarian standing screw and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6 PUSH-IN connection (spring-loaded connection)		
	mA mA mA V V W		

• 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 conductor cross-section for AWG conductors for auxiliary contacts	1x (20 16), 2x (20 16)

UL ratings:

Full-load current (FLA) for three-phase AC motor at 480 V Rated value

Α

0.5

Certificates/ approvals

* *			
General Product Approval	For use in	Functional	Declaration of
	hazardous	Safety/Safety	Conformity
	locations	of Machinery	









Type Examination



Test Certificates

other

Type Test
Certificates/Test
Report

Special Test Certificate Confirmation

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/industrymall

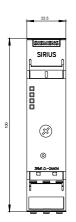
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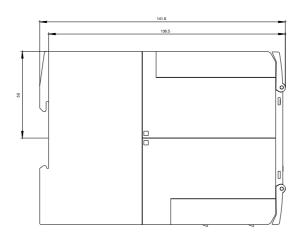
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM11012AA04

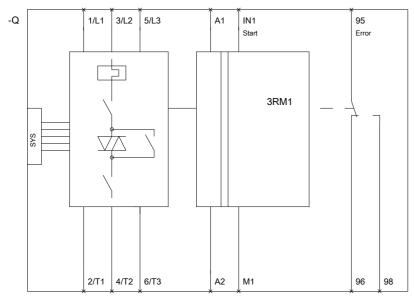
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RM11012AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RM11012AA04&lang=en







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