SIEMENS

Data sheet 3RM1302-3AA04



MOTORSTARTER SIRIUS 3RM1 REVERSING STARTER SAFETY 500 V; 0.4-2.0 A; 24 V DC CONTROL CIRCUIT PUSH-IN MAIN CIRCUIT SCREW TERMINAL

Figure similar

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product brand name		SIRIUS
Product designation		Motor starter
Design of the product		with reversing functionality and 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 +7 0
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 commercia 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	2	
Minimum load in % of I_M	%	20	
Active power loss typical	W	0.3	
Adjustable response value current of the current- dependent overload release	Α	0.4 2	
Operating power for three-phase motors at 400 V at 50 Hz	kW	0.09 0.75	
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	13		
— during operation	mA	57		
— when switching on	mA	150		
Input voltage at digital input				
• for signal <1>				
— for DC	V	15 30		
• with signal <0>				
— for DC	V	0 5		
Input current at digital input				
• for signal <1>				
— for DC	mA	8		
• with signal <0>				
— for DC	mA	1		
Switch-on delay time	ms	90 120		
OFF-delay time	ms	40 55		
Auxiliary circuit:				
Number of CO contacts for auxiliary contacts		1		
		1 Electronic		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for				
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function	A			
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts	A A	Electronic		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum		Electronic 3		
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Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum Installation/ mounting/ dimensions:		Electronic 3 1		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum nstallation/ mounting/ dimensions: mounting position		Electronic 3 1 vertical, horizontal, standing screw and snap-on mounting onto 35 mm standard		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum nstallation/ mounting/ dimensions: mounting position Mounting type	A	Series and snap-on mounting onto 35 mm standard mounting rail		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum nstallation/ mounting/ dimensions: mounting position Mounting type Width	Mm	Series and snap-on mounting onto 35 mm standard mounting rail 22.5		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum nstallation/ mounting/ dimensions: mounting position Mounting type Width Height Depth	mm mm	Secretarian Secret		
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Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum Installation/ mounting/ dimensions: mounting position Mounting type Width Height Depth Connections/ Terminals: Type of electrical connection	mm mm	Secretary and snap-on mounting onto 35 mm standard mounting rail 22.5 100 141.6		
Number of CO contacts for auxiliary contacts Design of the switching contact as NO contact for signaling function Operating current of the auxiliary contacts • at AC-15 maximum • at DC-13 maximum Installation/ mounting/ dimensions: mounting position Mounting type Width Height Depth Connections/ Terminals: Type of electrical connection • for main current circuit	mm mm	Screw-type terminals		

 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 AWG conductors for auxiliary contacts	1x (20 16), 2x (20 16)

UL ratings:		
Full-load current (FLA) for three-phase AC motor at	Α	2
480 V Rated value		
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 230 V Rated value	metric	0.125
	hp	
 for three-phase AC motor 		
— 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	

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	1-1-7/		100

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









Type Examination



other

Confirmation

 $\frac{\text{Environmental}}{\text{Confirmations}}$

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM13023AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RM13023AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RM13023AA04&lang=en





