

MOTOR STARTER 3RM1 SIRIUS REVERSING STARTER 500 V,
0,1-0,5A, 24V DC SCREW-TYPE CONNECTION SYSTEM



Figure similar

General technical data	
product brandname	SIRIUS
Product category	Motor starter
Product designation	Reversing 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 maximum	4 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °C
Relative humidity during operation	10 ... 95 %

Air pressure acc. to SN 31205	900 ... 1 060 hPa
Shock resistance	6g / 11 ms
Vibration resistance	1 ... 6 Hz, 15 mm; 20 m/s², 500 Hz
Surge voltage resistance rated value	6 kV
Insulation voltage rated value	500 V
Mechanical service life (switching cycles) typical	30 000 000
Conducted interference	
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to burst acc. to IEC 61000-4-4	3 kV / 5 kHz
• 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	500 V
• between control and auxiliary circuit	250 V
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
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Main circuit

Number of poles for main current circuit	3
Operating voltage rated value	48 ... 500 V
Relative symmetrical tolerance of the operating voltage	10 %
Operating frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
Relative symmetrical tolerance of the operating frequency	10 %
Operating current at AC-53a at 400 V at ambient temperature 40 °C rated value	0.5 A
Minimum load [% of IM]	20 %
Power loss [W] typical	0.02 W
Adjustable pick-up value current of the current-dependent overload release	0.1 ... 0.5 A

Operating power for three-phase motors at 400 V at 50 Hz	0 ... 0.12 kW
Operating frequency maximum	1 1/s
Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage 1 • at DC rated value	24 V
Operating range factor control supply voltage rated value • at DC	0.8 ... 1.25
Control current • at DC — in standby mode — during operation — when switching on	25 mA 70 mA 150 mA
Input voltage at digital input • for signal <1> — at DC • with signal <0> — at DC	15 ... 30 V 0 ... 5 V
Input current at digital input • for signal <1> — at DC • with signal <0> — at DC	11 mA 1 mA
Switch-on delay time	60 ... 90 ms
Off-delay time	60 ... 90 ms
Auxiliary circuit	
Number of CO contacts for auxiliary contacts	1
Design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA
Operating current of auxiliary contacts • at AC-15 at 230 V maximum • at DC-13 at 24 V maximum	3 A 1 A
Installation/ mounting/ dimensions	
Mounting position	vertical, horizontal, standing
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Width	22.5 mm
Height	100 mm
Depth	141.6 mm
Connections/Terminals	

Type of electrical connection	• for main current circuit	screw-type terminals
	• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections for main contacts	• solid	1x (0,5 ... 4 mm ²), 2x (0,5 ... 2,5 mm ²)
	• finely stranded	
	— with core end processing	1x (0,5 ... 4 mm ²), 2x (0,5 ... 1,5 mm ²)
Type of connectable conductor cross-sections at AWG conductors for main contacts		1x (20 ... 12), 2x (20 ... 14)
Type of connectable conductor cross-sections for auxiliary contacts	• solid	1x (0,5 ... 2,5 mm ²), 2x (1,0 ... 1,5 mm ²)
	• finely stranded	
	— with core end processing	1x (0,5 ... 2,5 mm ²), 2x (0,5 ... 1 mm ²)
Type of connectable conductor cross-sections at AWG conductors for auxiliary contacts		1x (20 ... 14), 2x (18 ... 16)

UL ratings

Full-load current (FLA) for three-phase AC motor at 480 V rated value	0.5 A
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Certificates/approvals

General Product Approval					Declaration of Conformity
					
CCC	CSA	GOST	UL		EG-Konf.

Test Certificates	other		
Type Test Certificates/Test Report	Special Test Certificate	Environmental Confirmations	Confirmation

Further information

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

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

Industry Mall (Online ordering system)

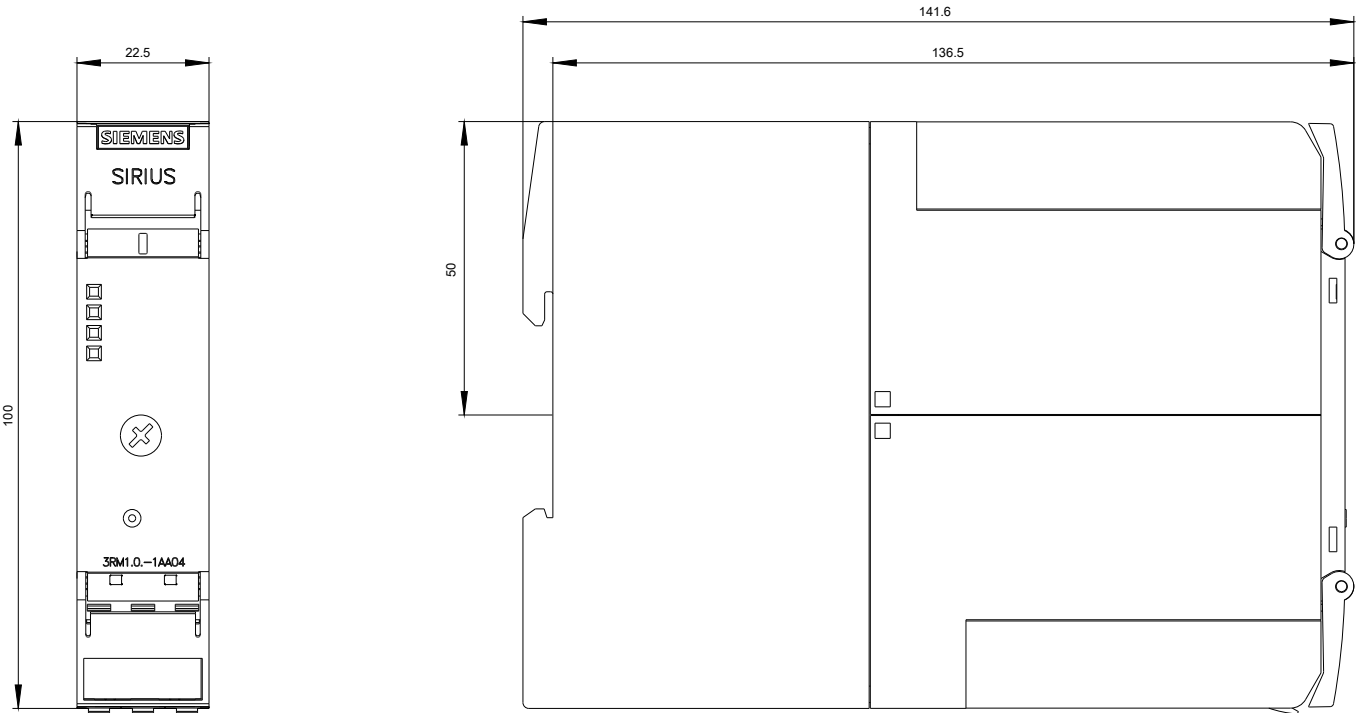
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1201-1AA04>

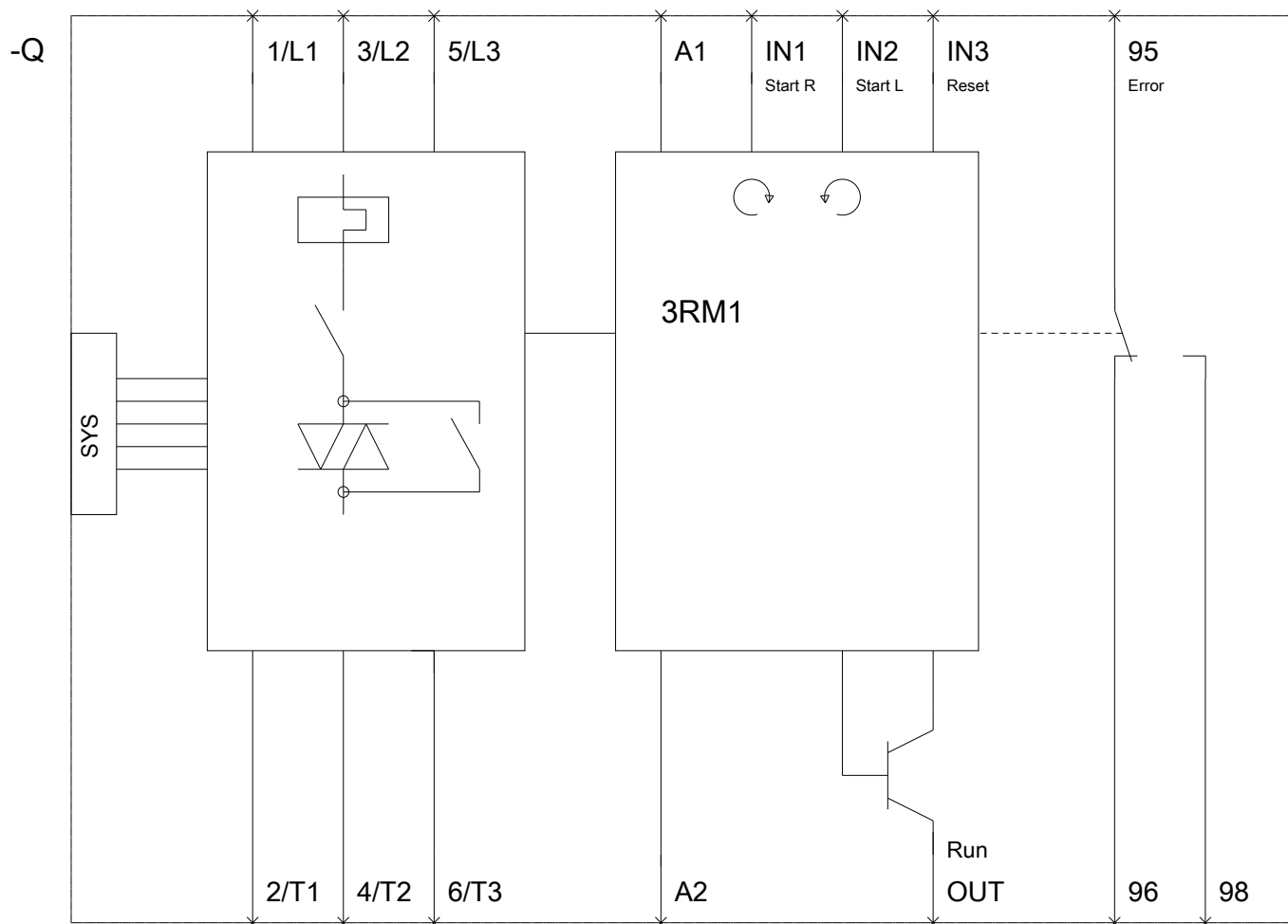
Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1201-1AA04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RM1201-1AA04>





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