SIEMENS

Data sheet

3RM1207-3AA14

Reversing starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 110-230 V AC, screw/spring-type terminals



Product brand name	SIRIUS
Product category	Motor starter
Product designation	Reversing starter
Design of the product	with electronic overload protection
Product type designation	3RM1
General technical data	
Trip class	CLASS 10A
Product function	
 Intrinsic device protection 	Yes
Suitability for operation Device connector 3ZY12	No
Power loss [W] for rated value of the current at AC in	1.13 W
hot operating state per pole	
Insulation voltage	
• rated value	500 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	500 V
 between control and auxiliary circuit 	250 V
Protection class IP	IP20

Shock resistance	6g / 11 ms
Vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
Operating frequency maximum	1 1/s
Mechanical service life (switching cycles)	
• typical	30 000 000
Reference code acc. to DIN 40719 extended	Q
according to IEC 204-2 acc. to IEC 750	
Reference code acc. to DIN EN 81346-2	Q
Reference code acc. to DIN EN 61346-2	Q
Product function	
• direct start	No
reverse starting	Yes
Product function Short circuit protection	No

Electromagnetic compatibility	
Conducted interference	
 due to burst acc. to IEC 61000-4-4 	3 kV / 5 kHz
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 KV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 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
Conducted HF-interference emissions acc. to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Field-bound HF-interference emission acc. to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC

Safety related data

Protection against electrical shock

finger-safe

Main circuit	
Number of poles for main current circuit	3
Design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA
Adjustable pick-up value current of the current-	1.6 7 A
dependent overload release	
Minimum load [%]	20 %
Type of the motor protection	solid-state
Operating voltage	
 rated value 	48 500 V
Relative symmetrical tolerance of the operating voltage	10 %
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz

Relative symmetrical tolerance of the operating	10 %
frequency	
Operating current	
• at AC at 400 V rated value	7 A
• at AC-53a at 400 V at ambient temperature 40	7 A
°C rated value	
Ampacity when starting maximum	56 A
Operating power for three-phase motors at 400 V at	0.55 3 kW
50 Hz	
Derating temperature	40 °C
Inputs/ Outputs	
Input voltage at digital input	
 at DC rated value 	110 V
• with signal <0> at DC	0 40 V
● for signal <1> at DC	79 121
Input voltage at digital input	
• at AC rated value	110 V
● with signal <0> at AC	0 40 V
● for signal <1> at AC	93 253 V
Input current at digital input	
 with signal <0> typical 	0.0004 A
● for signal <1> typical	0.002 A
Input current at digital input	
● for signal <1> at DC	1.5 mA
● with signal <0> at DC	0.25 mA
Input current at digital input with signal <0> at AC	
● at 110 V	0.2 mA
● at 230 V	0.4 mA
Input current at digital input for signal <1> at AC	
● at 110 V	1.1 mA
• at 230 V	2.3 mA
Number of CO contacts for auxiliary contacts	1
Operating current of auxiliary contacts at AC-15 at	3 A
230 V maximum	
Operating current of auxiliary contacts at DC-13 at 24 V maximum	1 A
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage 1 at AC	
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
Control supply voltage frequency	

Switch-on delay time 60 90 ms Off-delay time 60 90 ms		
Induction Induction • at DC rated value 110 V Operating range factor control supply voltage rated value at DC 0.85 • initial value 0.85 • Full-scale value 1.1 Operating range factor control supply voltage rated value at AC # 50 Hz 0.85 • initial value 1.1 Operating range factor control supply voltage rated value 1.1 Operating range factor control supply voltage rated value 0.85 Control current at AC • • at 110 V in standby mode 9 mA • at 230 V in standby mode 9 mA • at 130 V when switching on 35 mA • at 230 V during operation 20 mA • at 230 V during operation 30 mA • at 230 V during operation 60 mA • uhen switching on 15 mA • in standby mode 60 mA	• 1 rated value	50 Hz
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Required spacing • with side-by-side mounting - forwards 0 mm - Backwards 0 mm - upwards 50 mm		
 with side-by-side mounting forwards Backwards upwards 50 mm 	-	141.6 mm
forwards 0 mm Backwards 0 mm upwards 50 mm		
— Backwards 0 mm — upwards 50 mm		0
— upwards 50 mm		
— downwards 50 mm		
	— downwards	50 mm

— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	3.5 mm
— downwards	50 mm
Ambient conditions	
Installation altitude at height above sea level	
• maximum	4 000 m
Ambient temperature	
 during operation 	-25 +60 °C
• during storage	-40 +70 °C
• during transport	-40 +70 °C
Relative humidity during operation	10 95 %
Air pressure	
• acc. to SN 31205	900 1 060 hPa
Communication/ Protocol	
Product function Bus communication	No
Connections/ Terminals	
Type of electrical connection	screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit
Type of electrical connection for main current circuit	
	(push-in) for control circuit
• for main current circuit	(push-in) for control circuit screw-type terminals
 for main current circuit for auxiliary and control current circuit 	(push-in) for control circuit screw-type terminals
 for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-sections	(push-in) for control circuit screw-type terminals
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 for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing at AWG conductor cross-section for main contacts Connectable conductor cross-section for main contacts single or multi-stranded finely stranded with core end processing Connectable conductor cross-section for auxiliary contacts single or multi-stranded finely stranded with core end processing single or multi-stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing 	(push-in) for control circuit screw-type terminals spring-loaded terminals (push-in) 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ²
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 for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing at AWG conductor cross-section for main contacts Connectable conductor cross-section for main contacts single or multi-stranded finely stranded with core end processing Connectable conductor cross-section for auxiliary contacts single or multi-stranded finely stranded with core end processing single or multi-stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing 	(push-in) for control circuit screw-type terminals spring-loaded terminals (push-in) 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²) 1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 0.5 1 mm ²

— finely stranded with core end processing	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
— finely stranded without core end	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	1x (20 16), 2x (20 16)
AWG number as coded connectable conductor cross	
section	
 for main contacts 	20 12
 for auxiliary contacts 	20 16
UL/CSA ratings	
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
 for three-phase AC motor 	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
Certificates/ approvals	
General Product Approval	EMC other
	FHI II
	INCIM

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) www.siemens.com/ic10

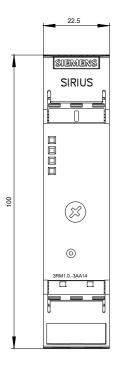
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1207-3AA14

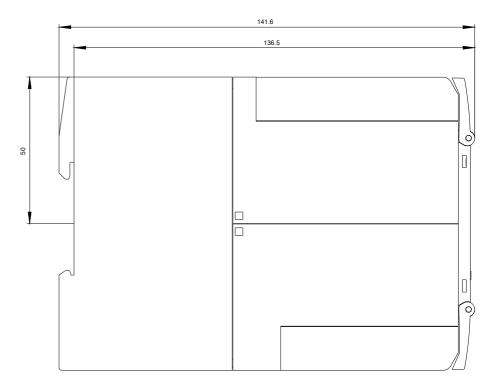
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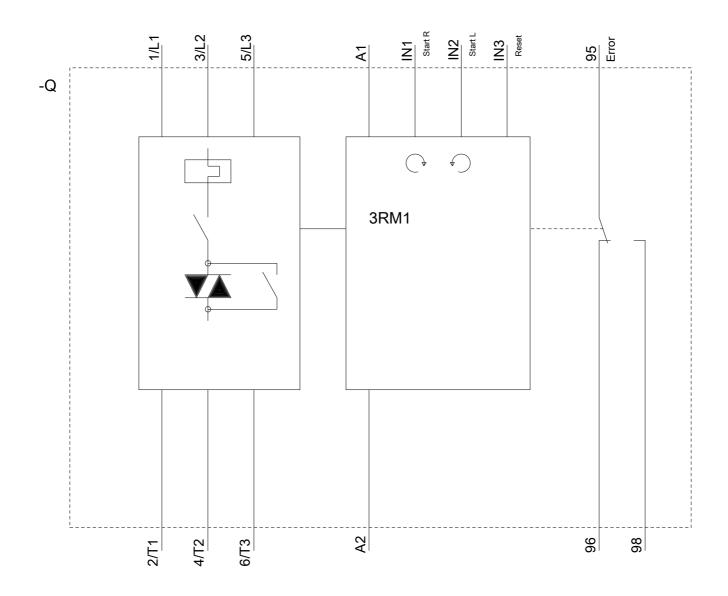
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1207-3AA14

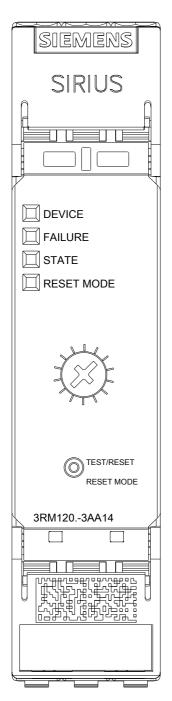
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RM1207-3AA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1207-3AA14&lang=en

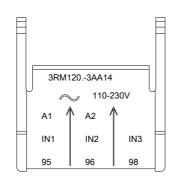


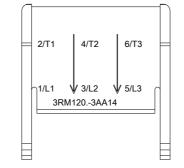












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