SIEMENS

Data sheet 3RM1201-3AA14

Motor starter SIRIUS 3RM1 Reversing starter 500 V; 0.1-0.5 A; 110-230 V AC Control circuit push-in Main circuit screw terminal



Figure similar

| General technical data | |
|---|-------------------------------------|
| Product brand name | 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 | No |
| Product function Intrinsic device protection | Yes |
| Type of the motor protection | solid-state |
| 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 | 6a / 11 ma |
|--|--|
| Vibration resistance | 6g / 11 ms |
| | 1 6 Hz, 15 mm; 20 m/s², 500 Hz |
| Surge voltage resistance rated value | 500 V |
| Insulation voltage rated value | |
| 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 domestic, business and commercial environments; Class A for industrial environments at 110 V DC |
| Conducted HF-interference emissions acc. to CISPR11 | Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC |
| maximum permissible voltage for safe isolation | |
| between main and auxiliary circuit | 500 V |
| between control and auxiliary circuit | 250 V |
| Reference code acc. to DIN 40719 extended | Q |
| according to IEC 204-2 acc. to IEC 750 | |
| Reference code acc. to DIN EN 61346-2 | Q |
| Safety related data | |
| Protection against electrical shock | finger-safe |
| Main circuit | |
| Number of poles for main current circuit | 3 |
| Operating voltage rated value | 48 500 V |
| Relative symmetrical tolerance of the operating | 10 % |
| voltage | |
| Operating frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| Relative symmetrical tolerance of the operating | 10 % |
| frequency | |
| Operating current at AC-53a at 400 V at ambient temperature 40 °C rated value | 0.5 A |
| Minimum load [%] | 20 % |
| Power loss [W] typical | 0.02 W |
| Adjustable pick-up value current of the current- dependent overload release | 0.1 0.5 A |
| Ampacity when starting maximum | 4 A |
| Ampacity when starting maximum | 70 |

| Operating power for three-phase motors at 400 V at | 0 0.12 kW |
|--|-----------|
| 50 Hz | |
| Operating frequency maximum | 1 1/s |

| Operating frequency maximum | 1 1/s |
|---|-----------|
| Control circuit/ Control | |
| Type of voltage of the control supply voltage | AC/DC |
| Control supply voltage 1 | |
| • at DC rated value | 110 V |
| • at AC | |
| — at 50 Hz | 110 230 V |
| — at 60 Hz | 110 230 V |
| Operating range factor control supply voltage rated | |
| value | |
| • at DC | 0.85 1.1 |
| • at AC | |
| — at 50 Hz | 0.85 1.1 |
| — at 60 Hz | 1.1 0.85 |
| Control current | |
| • at AC | |
| — at 230 V | |
| — in standby mode | 9 mA |
| during operation | 22 mA |
| — when switching on | 33 mA |
| — at 110 V | |
| — in standby mode | 16 mA |
| during operation | 36 mA |
| — when switching on | 55 mA |
| • at DC | |
| — in standby mode | 6 mA |
| during operation | 30 mA |
| — when switching on | 15 mA |
| Input voltage at digital input | |
| • for signal <1> | |
| — at DC | 79 121 V |
| — at AC | 93 253 V |
| • with signal <0> | |
| — at AC | 0 40 V |
| — at DC | 0 40 V |
| Input current at digital input | |
| • for signal <1> | |
| — at AC at 230 V | 2.3 mA |
| — at AC at 110 V | 1.1 mA |

| — at DC | 1.5 mA |
|--|----------|
| • with signal <0> | |
| — at AC at 230 V | 0.4 mA |
| — at AC at 110 V | 0.2 mA |
| — at DC | 0.25 mA |
| Switch-on delay time | 60 90 ms |
| Off-delay time | 60 90 ms |
| Auxiliary circuit | |
| Number of CO contacts for suvilians contacts | 4 |

| Auxiliary circuit | |
|---|---------------------------------|
| Number of CO contacts for auxiliary contacts | 1 |
| Design of the switching contact as NO contact for | OUT, electronic, 24 V DC, 15 mA |
| signaling function | |
| Operating current of auxiliary contacts | |
| • at AC-15 at 230 V maximum | 3 A |
| • at DC-13 at 24 V maximum | 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 | PUSH-IN connection (spring-loaded connection) |
| Type of connectable conductor cross-sections for main contacts | |
| • solid | 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) |
| • finely stranded | |
| — with core end processing | 1x (0,5 4 mm²), 2x (0,5 1,5 mm²) |
| 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 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-sections at AWG conductors for auxiliary contacts | 1x (20 16), 2x (20 16) |

| UL ratings | |
|---|-------|
| Full-load current (FLA) for three-phase AC motor at | 0.5 A |
| 480 V rated value | |

Certificates/approvals

General Product Approval









Confirmation

other

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=3RM1201-3AA14

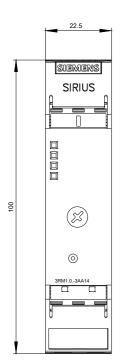
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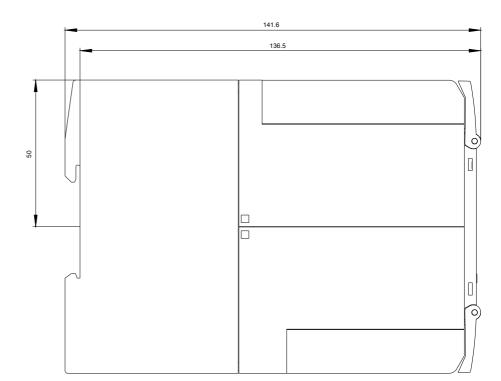
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RM1201-3AA14} \\$

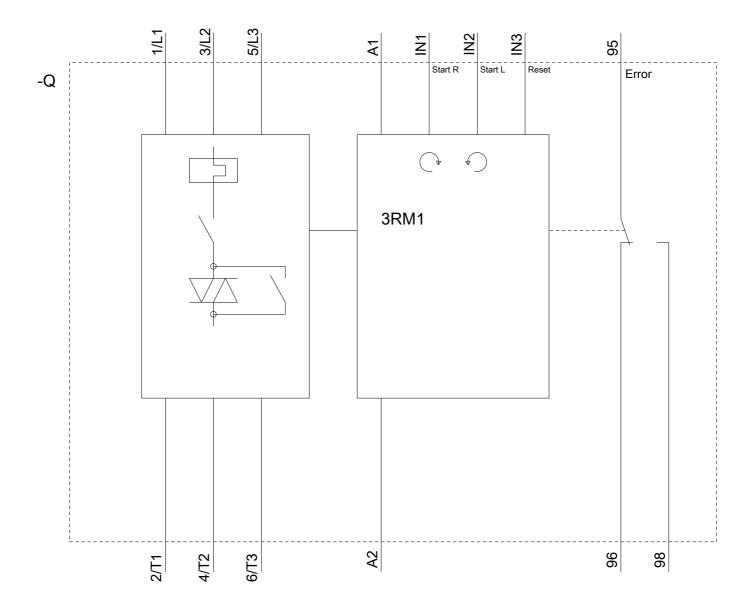
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RM1201-3AA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1201-3AA14&lang=en







last modified: 05/17/2018