



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

General technical data:

| | | |
|--|----|---|
| product brand name | | SIRIUS |
| Product designation | | Motor starter |
| Design of the product | | with reversing functionality and electronic overload protection |
| Trip class | | CLASS 10A |
| Protection class IP | | IP20 |
| Suitability for use / 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 a height over sea level / maximum | m | 4,000 |
| Ambient temperature | | |
| • during operating | °C | -25 ... +60 |
| • during transport | °C | -40 ... +70 |
| • during storage | °C | -40 ... +70 |
| Resistance against shock | | 6g / 11 ms |
| Resistance against vibration | | 1 ... 6 Hz, 15 mm; 20 m/s², 500 Hz |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 600 |

| | | |
|--|---|--|
| Mechanical operating cycles as operating time / typical | | 30,000,000 |
| Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5 | | 1 kV |
| Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4 | | 3 kV / 5 kHz |
| Conducted interference as high-frequency radiation according to IEC 61000-4-6 | | 10 V |
| Electrostatic discharge / according to IEC 61000-4-2 | | 4 kV contact discharge / 8 kV air discharge |
| Field-bound HF-interference emission / according to CISPR11 | | Class B for the domestic, business and commercial environments |
| Conductor-bound HF-interference emission / according to CISPR11 | | Class B for the domestic, business and commercial environments |
| Maximum permissible voltage for safe disconnection | | |
| • between main circuit and auxiliary circuit | V | 500 |
| • between control and auxiliary circuit | V | 250 |
| Reference code | | |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 | | Q |
| • according 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 / maximum | V | 500 |
| Operating frequency | | |
| • 1 | Hz | 50 |
| • 2 | Hz | 60 |
| Operating current / at 400 V / for AC / rated value | A | 0.5 |
| Minimum load in % of I_M | % | 20 |
| Active power loss / typical | W | 0.02 |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 0.1 ... 0.5 |
| Service power / for three-phase servomotors / at 400 V | | |
| • at 50 Hz | kW | 0 ... 0.12 |
| Operating cycles / maximum | 1/s | 1 |

Control circuit/ Control:

| | | |
|--|---|----|
| Voltage type / of control feed 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 | | |
| • with DC | | |
| • in standby mode | mA | 25 |
| • during operation | mA | 70 |
| • on switching on | mA | 150 |
| Input voltage / at the digital input | | |
| • with signal <1> | | |
| • for DC | V | 15 ... 30 |
| • with signal <0> | | |
| • with DC | V | 0 ... 5 |
| Input voltage / at digital input | | |
| • with signal <1> | | |
| • with DC | mA | 11 |
| • with signal <0> | | |
| • with DC | mA | 1 |
| ON-delay time | ms | 60 ... 90 |
| OFF-delay time | ms | 60 ... 90 |

Auxiliary circuit:

| | | |
|---|---|------------|
| Number of changeover contacts / for auxiliary contacts | | 1 |
| Design of the switching contact / as make contact / for reporting function | | Electronic |
| Operating current / of the auxiliary contacts | | |
| • at AC-15 | A | 3 |
| • at DC-13 | A | 1 |

Installation/ mounting/ dimensions:

| | | |
|--------------------------|----|--|
| mounting position | | vertical, horizontal, standing |
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Width | mm | 22.5 |
| Height | mm | 100 |
| Depth | mm | 141.6 |

Connections/ terminals:

| | | |
|--|--|--|
| Design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |
| • for main contacts | | |
| • solid | | 1x (0,5 ... 4 mm ²), 2x (0,5 ... 2,5 mm ²) |

| | |
|---|--|
| <ul style="list-style-type: none"> finely stranded with conductor end processing for AWG conductors | 1x (0,5 ... 2,5 mm ²), 2x (0,5 ... 1,5 mm ²) 1x (20 ... 12), 2x (20 ... 14) |
| Type of the connectable conductor cross-section <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded <ul style="list-style-type: none"> with conductor end processing for AWG conductors | 1x (0,5 ... 2,5 mm ²), 2x (1,0 ... 1,5 mm ²) 1x (0,5 ... 2,5 mm ²), 2x (0,5 ... 1 mm ²) 1x (20 ... 14), 2x (18 ... 16) |

UL ratings:

Full-load current (FLA) / for 3-phase motor / at 480 V / rated value

A

0.5

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates



[Type Test Certificates/Test Report](#)

other

[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/industrial-controls/mall>

Cax online generator

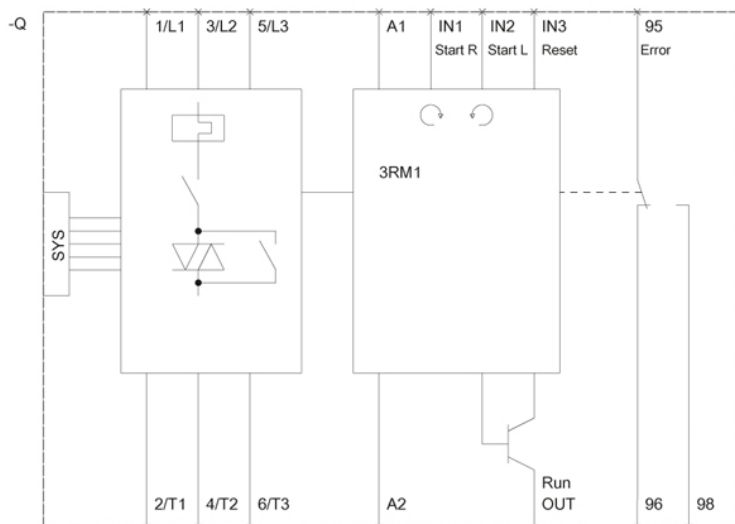
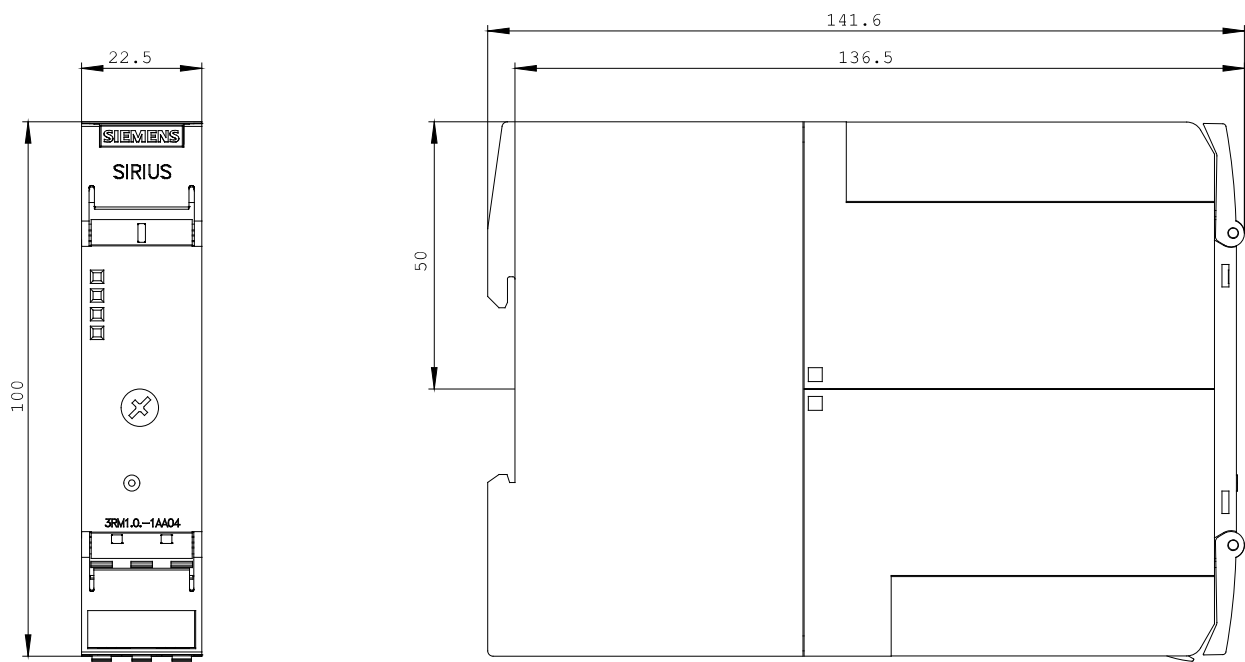
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RM1201-1AA04/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RM1201-1AA04



last change:

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