

MOTOR STARTER SIRIUS 3RM1 REVERSING STARTER 500 V;
0,4-2,0 A; 24 V DC PUSH-IN 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/s ² , 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 | |
| <ul style="list-style-type: none"> • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to burst acc. to IEC 61000-4-4 • due to high-frequency radiation acc. to IEC 61000-4-6 | 1 kV 2 kV 3 kV / 5 kHz 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 | |
| <ul style="list-style-type: none"> • between main and auxiliary circuit • between control and auxiliary circuit | 500 V 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 |
|--|-------------|

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 | |
| <ul style="list-style-type: none"> • 1 rated value • 2 rated value | 50 Hz 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 | 2 A |
| Minimum load [% of IM] | 20 % |
| Power loss [W] typical | 0.3 W |
| Adjustable pick-up value current of the current-dependent overload release | 0.4 ... 2 A |

| | |
|--|------------------|
| Operating power for three-phase motors at 400 V at 50 Hz | 0.09 ... 0.75 kW |
| Operating frequency maximum | 1 1/s |

Control circuit/ Control

| | |
|--|--------------------------|
| Type of voltage of the control supply voltage | DC |
| Control supply voltage 1 <ul style="list-style-type: none"> • at DC rated value | 24 V |
| Operating range factor control supply voltage rated value <ul style="list-style-type: none"> • at DC | 0.8 ... 1.25 |
| Control current <ul style="list-style-type: none"> • at DC <ul style="list-style-type: none"> — in standby mode — during operation — when switching on | 25 mA 70 mA 150 mA |
| Input voltage at digital input <ul style="list-style-type: none"> • for signal <1> <ul style="list-style-type: none"> — at DC • with signal <0> <ul style="list-style-type: none"> — at DC | 15 ... 30 V 0 ... 5 V |
| Input current at digital input <ul style="list-style-type: none"> • for signal <1> <ul style="list-style-type: none"> — at DC • with signal <0> <ul style="list-style-type: none"> — 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit | PUSH-IN connection (spring-loaded connection) PUSH-IN connection (spring-loaded connection) |
| Type of connectable conductor cross-sections for main contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing | 1x (0.5 ... 4 mm ²) 1x (0.5 ... 2.5 mm ²) 1x (0.5 ... 4 mm ²) |
| Type of connectable conductor cross-sections at AWG conductors for main contacts | 1x (20 ... 12) |
| Type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing | 1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²) 1x (0,5 ... 1,0 mm ²), 2x (0,5 ... 1,0 mm ²) 1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²) |
| 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 480 V rated value | 2 A |
| Yielded mechanical performance [hp] <ul style="list-style-type: none"> • for single-phase AC motor <ul style="list-style-type: none"> — at 230 V rated value • for three-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value | 0.125 hp 0.333 hp 0.333 hp 0.75 hp |

Certificates/approvals



CCC



CSA



GOST

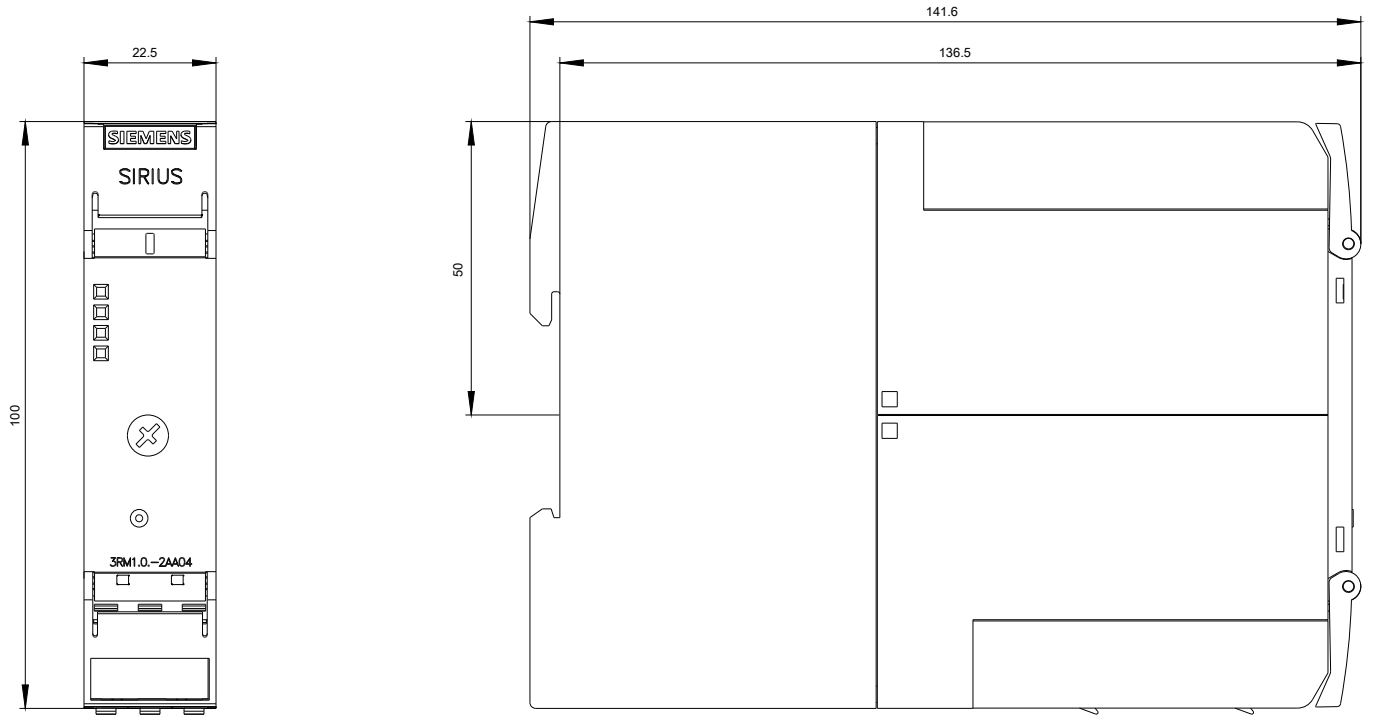


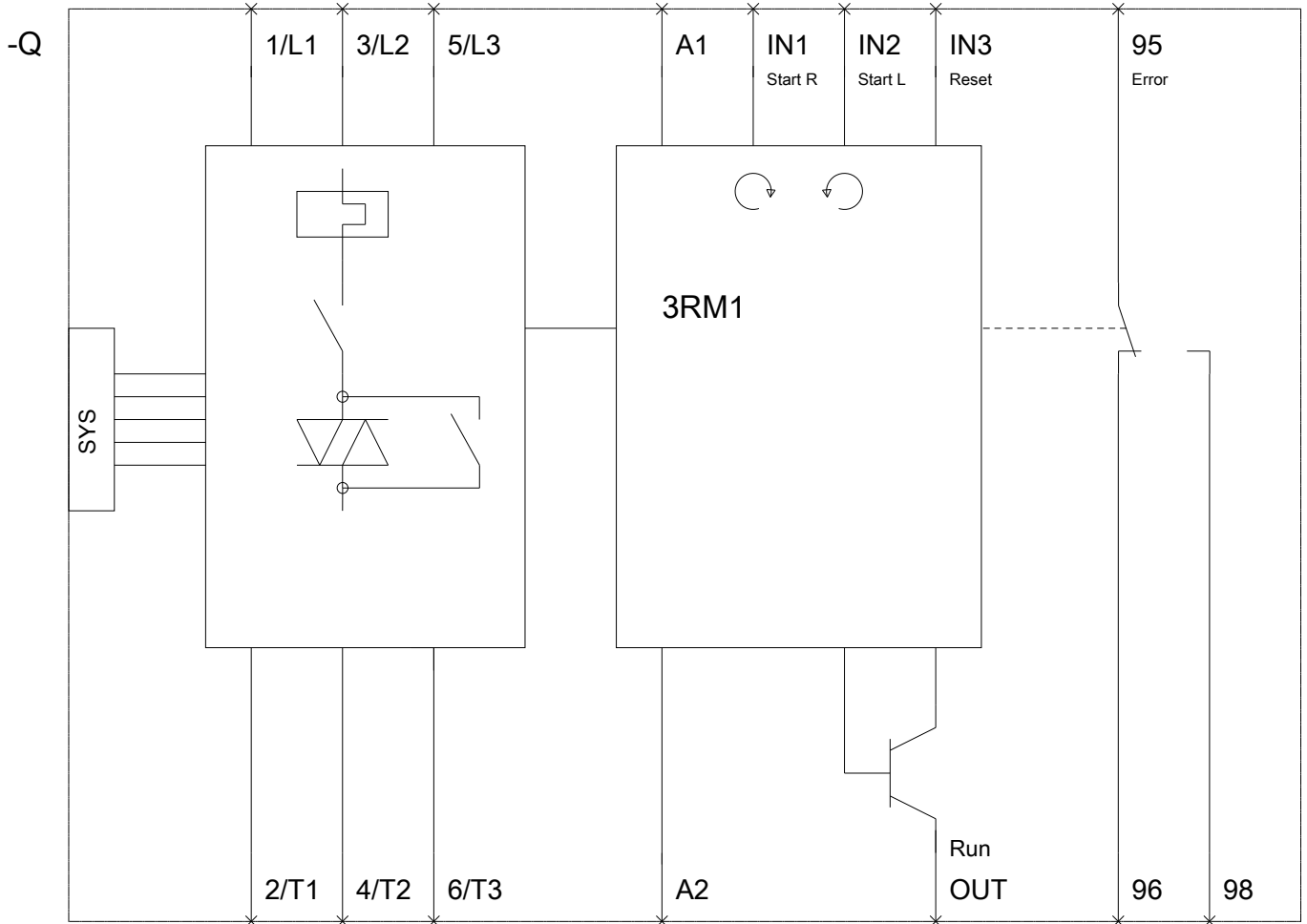
UL



EG-Konf.

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