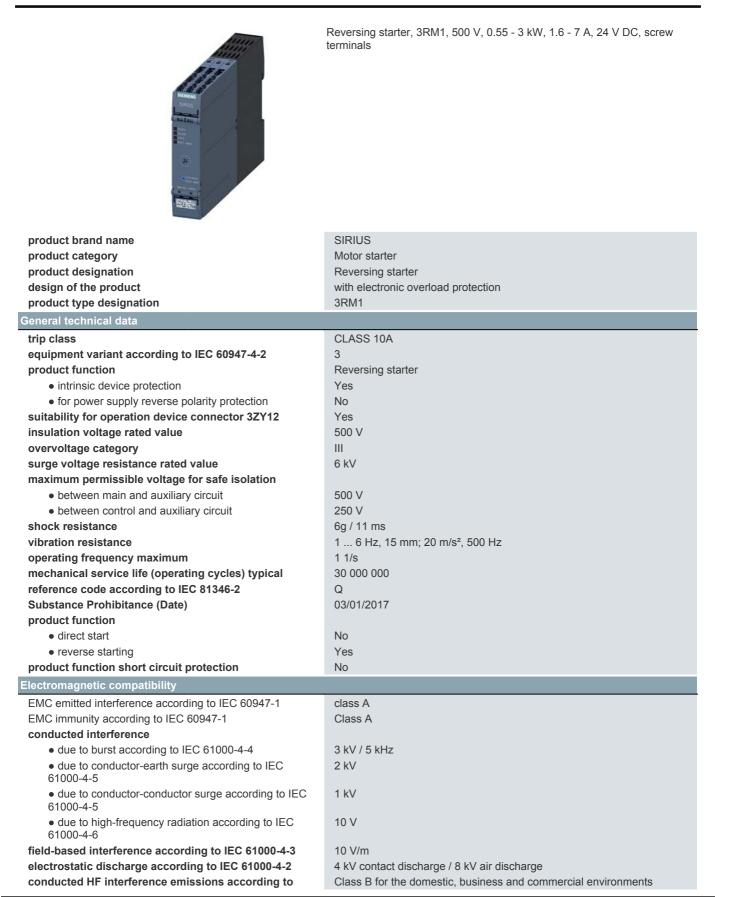
SIEMENS

Data sheet

3RM1207-1AA04



CISPR11

| field-bound HF interference emission according to | Class B for the domestic, business and commercial environments |
|---------------------------------------------------|----------------------------------------------------------------|
| CISPR11 | |

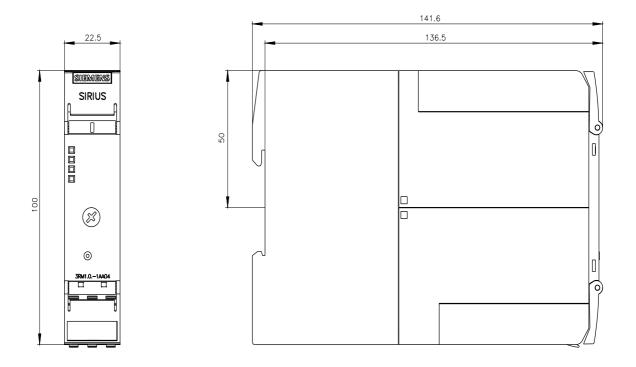
| CISPR11 | |
|-------------------------------------------------------------------------------------------------------|---------------------------------|
| Safety related data | |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe |
| Main circuit | |
| number of poles for main current circuit | 3 |
| design of the switching contact | Hybrid |
| design of the switching contact as NO contact for signaling function | OUT, electronic, 24 V DC, 15 mA |
| adjustable current response value current of the current-dependent overload release | 1.6 7 A |
| minimum load [%] | 20 %; from set rated current |
| 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 frequency | 10 % |
| operational current | |
| • at AC at 400 V rated value | 7 A |
| • at AC-3 at 400 V rated value | 7 A |
| • at AC-53a at 400 V at ambient temperature 40 °C rated value | 7 A |
| ampacity when starting maximum | 56 A |
| operating power for 3-phase motors at 400 V at 50 Hz | 0.55 3 kW |
| derating temperature | 40 °C |
| Inputs/ Outputs | |
| input voltage at digital input | |
| at DC rated value | 24 V |
| with signal <0> at DC | 0 5 V |
| • for signal <1> at DC | 15 30 |
| input current at digital input | |
| • for signal <1> at DC | 11 mA |
| • with signal <0> at DC | 1 mA |
| number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at | 1 3 A |
| 230 V maximum operational current of auxiliary contacts at DC-13 at | 1A |
| 24 V maximum | |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | DC |
| control supply voltage at DC rated value | 19.2 30 V |
| relative negative tolerance of the control supply voltage at DC | 20 % |
| relative positive tolerance of the control supply voltage at DC | 25 % |
| control supply voltage 1 at DC rated value | 24 V |
| operating range factor control supply voltage rated value at DC | |
| initial value | 0.8 |
| full-scale value | 1.25 |
| control current at DC | |
| in standby mode of operation | 25 mA |
| during operation | 70 mA |
| inrush current peak | |
| ● at DC at 24 V | 300 mA |
| at DC at 24 V at switching on of motor | 140 mA |
| duration of inrush current peak | |
| • at DC at 24 V | 80 ms |
| at DC at 24 V at switching on of motor | 80 ms |

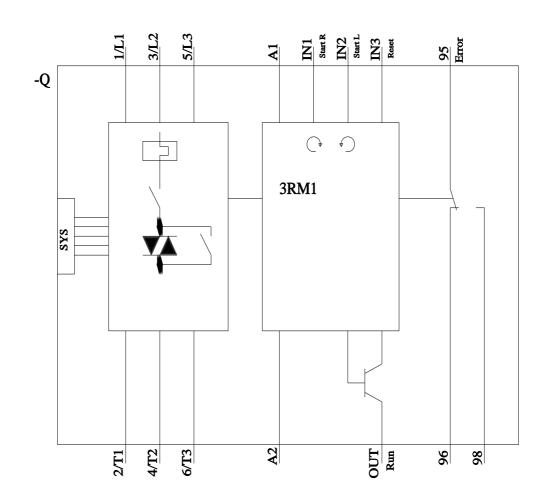
| power loss [W] in auxiliary and control circuit | |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| in switching state OFF | |
| — with bypass circuit | 0.6 W |
| in switching state ON | |
| — with bypass circuit | 1.68 W |
| Response times | |
| ON-delay time | 60 90 ms |
| OFF-delay time | 60 90 ms |
| Power Electronics | |
| operational current | |
| at 40 °C rated value | 7 A |
| at 50 °C rated value | 6.1 A |
| at 55 °C rated value | 5.2 A |
| • at 60 °C rated value | 4.6 A |
| Installation/ mounting/ dimensions | |
| mounting position | vertical, horizontal, standing (observe derating) |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail |
| height | 100 mm |
| width | 23 mm |
| depth | 142 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 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 | 4 mm |
| — downwards | 50 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 4 000 m; For derating see manual |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -40 +70 °C -40 +70 °C |
| during transport environmental category during operation according to IEC | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt |
| 60721 | mist), 3S2 (sand must not get into the devices), 3M6 |
| relative humidity during operation | 10 95 % |
| air pressure according to SN 31205 | 900 1 060 hPa |
| Communication/ Protocol | |
| protocol is supported | |
| PROFINET IO protocol | No |
| PROFIsafe protocol | No |
| product function bus communication | No |
| protocol is supported AS-Interface protocol | No |
| Connections/ Terminals | |
| type of electrical connection | screw-type terminals for main circuit, screw-type terminals for control |
| | circuit |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| wire length for motor unshielded maximum | 100 m |
| 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) |
| at AWG cables for main contacts | 1x (20 12), 2x (20 14) |
| connectable conductor cross-section for main | |
| contacts | |
| contacts solid or stranded | 0.5 4 mm² |

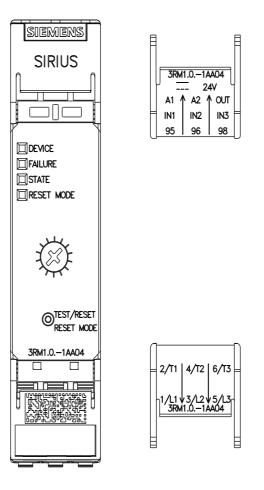
| connectable conduc | with core end processir | - | 0.5 4 | 4 mm² | | | |
|---------------------------------------|---------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|---------|-----|--|
| contacts | | | | | | | |
| | solid or stranded | | 0.5 2.5 mm ² | | | | |
| | finely stranded with core end processing | | 0.5 2.5 mm ² | | | | |
| | type of connectable conductor cross-sections | | | | | | |
| | for auxiliary contacts | | $1 \times (0.5 - 2.5 \text{ mm}^2) \times (1.0 - 1.5 \text{ mm}^2)$ | | | | |
| | — solid — finely stranded with core end processing | | $1x (0,5 2,5 mm^2), 2x (1,0 1,5 mm^2)$ $1x (0,5 2,5 mm^2), 2x (0,5 1 mm^2)$ | | | | |
| | for auxiliary contacts | essing | | 1x (0.5 2.5 mm²), 2x (0.5 1 mm²) 1x (20 14), 2x (18 16) | | | |
| | ded connectable cond | uctor cross | 17 (20 | 14), 2X (10 10 | ') | | |
| for main contact | ts | | 20 1 | 2 | | | |
| for auxiliary cor | | | 20 1 | - | | | |
| UL/CSA ratings | | | | | | | |
| yielded mechanical | performance [hp] | | | | | | |
| for single-phase | | | | | | | |
| • · |) V rated value | | 0.25 hp | | | | |
| — at 230 V ra | — at 230 V rated value | | 0.5 hp | | | | |
| for 3-phase AC | for 3-phase AC motor | | | | | | |
| — at 200/208 | — at 200/208 V rated value | | 1 hp | | | | |
| — at 220/230 | — at 220/230 V rated value | | 1.5 hp | | | | |
| — at 460/480 | — at 460/480 V rated value | | 3 hp | | | | |
| operating voltage at A | operating voltage at AC rated value | | 480 V | | | | |
| Certificates/ approval | S | | | | | | |
| General Product Ap | oproval | | | | | EMC | |
| (SP) | <u>Confirmation</u> | | | (UL) | EAC | RCM | |
| Declaration of Conformity | Test Certificates | other | | Railway | | | |
| CE | Type Test Certific- ates/Test Report | <u>Confirmatio</u> | <u>on s</u> | Special Test Certific ate | <u></u> | | |

| Irther information | |
|----------------------------------------------------------------------------------------------------------|--|
| nformation on the packaging | |
| https://support.industry.siemens.com/cs/ww/en/view/109813875 | |
| nformation- and Downloadcenter (Catalogs, Brochures,) | |
| https://www.siemens.com/ic10 | |
| ndustry Mall (Online ordering system) | |
| https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1207-1AA04 | |
| Cax online generator | |
| http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1207-1AA04 | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) | |
| https://support.industry.siemens.com/cs/ww/en/ps/3RM1207-1AA04 | |
| mage database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1207-1AA04⟨=en_ | |

EG-Konf.







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