SIEMENS

## Data sheet 5SM2646-6

RC unit, 4-pole, type A, In: 63 A, 300 mA, Un AC: 400 V, for 5SL4



Figure similar

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | RCD-unit |
| **design of the product** | Instantaneous |
| **product type designation** | 5SM2 |
| **product version** | for 5SL4 |
| **General technical data** | |
| **number of poles** | 4 |
| **design of pole** | 4 poles |
| **size of installation devices according to DIN 43880** | 1 |
| **touch protection against electrical shock according to EN 50274** | Finger and back-of-hand safe |
| **mechanical service life (operating cycles) typical** | 10 000 |
| **overvoltage category** | III |
| **degree of pollution** | 2 |
| **Voltage** | |
| **type of voltage of the operating voltage** | AC |
| **insulation voltage (Ui) rated value** | 460 V |
| **surge voltage resistance rated value** | 4 000 V |
| **tripping fault current rated value** | 300 mA |
| **• operational current** | |
| **— at 40 °C rated value** | 58.6 A |
| **— at 45 °C rated value** | 58.59 A |
| **— at 50 °C rated value** | 56.7 A |
| **— at 55 °C rated value** | 54.81 A |
| **— at 60 °C rated value** | 53.55 A |
| **— at 65 °C rated value** | 52.29 A |
| **— at 70 °C rated value** | 50.4 A |
| **• operational current at AC rated value** | 63 A |
| **residual current type** | A |
| **surge current resistance rated value** | 3 kA |
| **supply voltage** | |
| • at AC | 400 V |
| • for testing equipment minimum | 195 V |
| **value range of the supply voltage frequency** | 50 Hz |
| **value range of the operating frequency** | 50 Hz |
| **Protection class** | |


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| | |
|---|---|
| **protection class IP** | IP20, if the distribution board is installed, with connected conductors |
| **protection function false tripping** | Yes |
| **Dissipation** | |
| **power loss [W]** | |
| **• for rated value of the current at AC in hot operating state per pole** | 3 W |
| **• maximum** | 9 W |
| **Product details** | |
| **product feature OFF-delay time adjustable** | No |
| **product feature rated fault current adjustable** | No |
| **product feature sealable** | No |
| **Connections** | |
| **connectable conductor cross-section solid** | |
| • minimum | 1.5 mm² |
| • maximum | 25 mm² |
| **connectable conductor cross-section stranded** | |
| • minimum | 1.5 mm² |
| • maximum | 25 mm² |
| **tightening torque with screw-type terminals** | |
| • minimum | 2.5 N·m |
| • maximum | 3 N·m |
| **position of power supply cord** | top or bottom |
| **Mechanical Design** | |
| **height** | 90 mm |
| **width** | 54 mm |
| **depth** | 70 mm |
| **installation depth** | 70 mm |
| **number of modular width units** | 3 |
| **fastening method** | DIN-rail mounting |
| **mounting position** | any |
| **Net Weight** | 306 g |
| **Environmental conditions** | |
| **ambient temperature during operation** | |
| • minimum | -25 °C |
| • maximum | 45 °C |
| **ambient temperature during storage** | |
| • minimum | -40 °C |
| • maximum | 75 °C |
| **number of test cycles for environmental testing according to IEC 60068-2-30** | 28 |
| **Certificates** | |
| **reference code according to IEC 81346-2** | F |

**Approvals Certificates**

| Environment | | General Product Approval | | Miscellaneous | |
|---|---|---|---|---|---|
| Environmental Con-firmations | Environmental Con-firmations | CCC | VDE | Miscellaneous | EAC |

| General Product Approval | | | other | Dangerous goods |
|---|---|---|---|---|
| Confirmation | CE EG-Konf. | UKCA | 产品合格 QC PASS | Confirmation | Transport Information |

**Further information**

**Information on the packaging**


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https://support.industry.siemens.com/cs/ww/en/view/109813875

**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012

**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs

**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SM2646-6

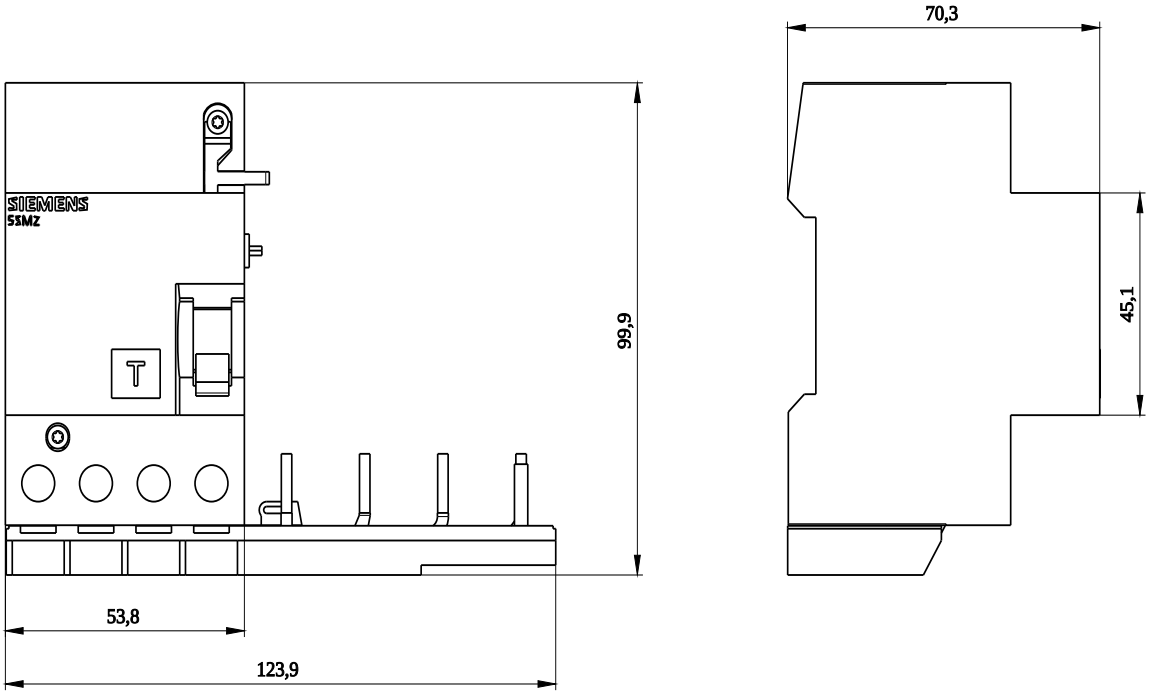
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SM2646-6

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM2646-6

**CAx-Online-Generator**
https://www.siemens.com/cax

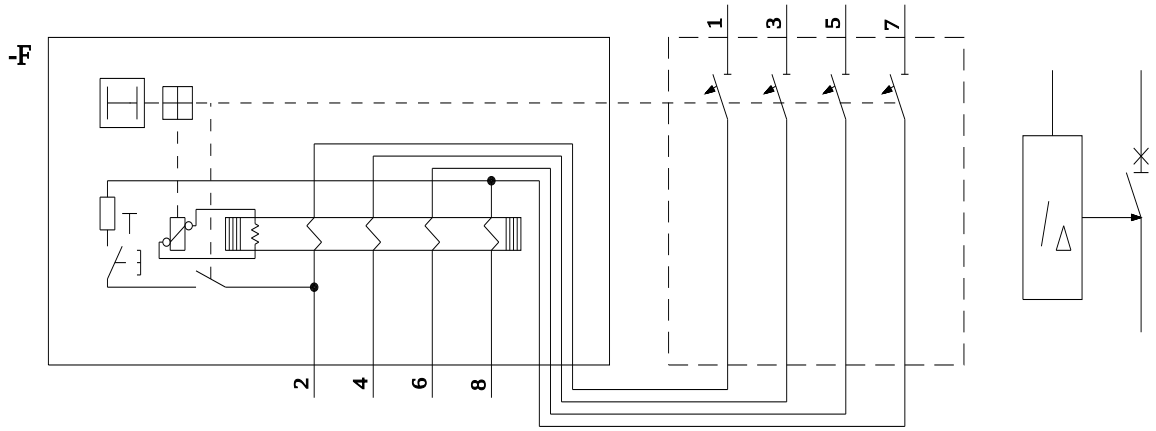
**Tender specifications**
https://www.siemens.com/specifications

**Kennlinien**
https://curves.simaris.siemens.com/curves/5SM2646-6





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