

Siemens
EcoTech



Miniature Circuit Breaker Measuring RCM / EM Communication AC 230V 6kA, 1+N pole, B, 32A Please consider Radio approval! List of countries: see Certificates

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | Miniature circuit breaker |
| design of the product | Miniature circuit breaker COM compact |
| product version | Notice! This is NOT a device with a residual-current protection function. This device must never be used instead of an RCD. |
| type of measured value detection | completely |
| General technical data | |
| design of pole | 1P+N |
| apparent power consumption of the power supply | 1.4 VA |
| tripping characteristic class | B |
| mechanical service life (operating cycles) typical | 10 000 |
| electrical endurance (operating cycles) at AC load in the mean value | 7 500 |
| measurable line frequency initial value | 45 Hz |
| measurable line frequency full-scale value | 65 Hz |
| overvoltage category | 3 |
| degree of pollution | 2 |
| frequency with radio transmission minimum | 2 400 MHz |
| frequency with radio transmission maximum | 2 483.5 MHz |
| status display of the measured data | voltage, current, residual current, active power, apparent power, reactive power, active energy, line frequency, power factor, temperature, switching cycles, operating hours, tripping, warnings |
| Voltage | |
| type of voltage of the operating voltage | AC |
| insulation voltage (Ui) at AC rated value | 285 V |
| supply voltage with single-phase operation at AC rated value | 230 V |
| <ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value ● operational current at AC rated value | 32 A 29.21 A 24.44 A 26.13 A 22.63 A 32 A |
| measurable current at AC | |

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| <ul style="list-style-type: none"> initial value | 0.04 A |
| <ul style="list-style-type: none"> full-scale value | 66 A |
| reference current (Iref) 1 at AC rated value | 32 A |
| Supply voltage | |
| supply voltage | |
| <ul style="list-style-type: none"> at AC | 230 V |
| value range of the supply voltage frequency | 50/60 Hz |
| operating voltage | |
| <ul style="list-style-type: none"> minimum | 120 V |
| <ul style="list-style-type: none"> with single-phase operation at AC maximum | 400 V |
| Protection class | |
| protection class IP | IP20, with connected conductors |
| protection class IP | |
| <ul style="list-style-type: none"> on the front | IP40 |
| <ul style="list-style-type: none"> rear side | IP20 |
| Breaking Capacity | |
| switching capacity current | |
| <ul style="list-style-type: none"> according to EN 60898 rated value | 6 kA |
| grid spacing | 35 mm |
| energy limitation class | 3 |
| Dissipation | |
| power loss [W] for rated value of the current | |
| <ul style="list-style-type: none"> at AC in hot operating state per pole | 4.6 W |
| Residual current | |
| monitoring function of residual currents according to standard | DIN EN IEC 62020-1 (VDE 0663-1) |
| type of residual current monitoring | Type F |
| measuring channels with residual current | Base Frequency, Harmonics, Lowpass AC, Lowpass RMS, Bandpass, Highpass |
| measuring precision of the residual current | 3mA...5mA: +/-30%; 5mA...1000mA: +/-15% |
| residual current at measuring range lower limit | 0.003 A |
| residual current at measuring range upper limit | 1 A |
| prewarning threshold of the residual current in factory setting | 50 % |
| prewarning threshold of the residual current at setting range lower limit | 50 % |
| prewarning threshold of the residual current at setting range upper limit | 100 % |
| residual current alarm threshold in factory setting | 0.015 A |
| residual current alarm threshold at setting range upper limit | 0.3 A |
| residual current alarm threshold at setting range lower limit | 0.007 A |
| frequency measuring range with residual current | <= 100kHz |
| Suitability | |
| suitability for use ammeter | Yes |
| suitability for use reactive power meter | Yes |
| suitability for use frequency meter | Yes |
| suitability for use voltmeter | Yes |
| suitability for use wattmeter | Yes |
| Product details | |
| product feature touch protection | Yes |
| product component | |
| <ul style="list-style-type: none"> combined terminal top | No |
| <ul style="list-style-type: none"> combined terminal bottom | No |
| <ul style="list-style-type: none"> neutral conductor switching | Yes |
| product feature properties for main switches in accordance with EN 60204-1 | No |
| product feature halogen-free | Yes |
| product feature sealable | Yes |
| product feature silicon-free | Yes |
| product extension installable supplementary devices | Yes |
| Product function | |
| product function | |

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| • communication function | Yes |
| • other measurement function | Yes |
| Communication | |
| guideline via radio-controlled system | 2014/53/EU |
| protocol is supported | Wireless protocol |
| Fault limits | |
| standards for error limits | based on IEC61557-12, IEC62053-22, IEC62053-23 |
| relative symmetrical measurement uncertainty [%] | |
| • for measured variable current | 0.5 % |
| • for measured variable electrical energy | 1 % |
| Measuring inputs | |
| measurable supply voltage between (PE)N and L at AC | |
| • minimum | 100 V |
| • maximum | 400 V |
| measuring category for voltage measurement | CATIII according IEC 61010-2-030 |
| measuring procedure for current measurement | TRMS |
| measuring procedure for voltage measurement | TRMS |
| Connections | |
| connectable conductor cross-section solid | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section finely stranded with core end processing | |
| • minimum | 0.75 mm ² |
| • maximum | 10 mm ² |
| tightening torque [lbf·in] with screw-type terminals | |
| • minimum | 10.6 lbf·in |
| • maximum | 17.7 lbf·in |
| tightening torque with screw-type terminals | |
| • minimum | 1.2 N·m |
| • maximum | 2 N·m |
| position of power supply cord | Any |
| Mechanical Design | |
| height | 90 mm |
| width | 18 mm |
| depth | 76 mm |
| installation depth | 70 mm |
| number of modular width units | 1 |
| fastening method | DIN rail |
| mounting position | any |
| Net Weight | 142 g |
| Environmental conditions | |
| standard | IEC/EN60898-1, GB/T10963.1 |
| standard for shocks | IEC 61373 |
| standard for environmental sinusoidal oscillation check | IEC 60068-2-6 |
| vibration resistance according to IEC 60068-2-6 | Yes |
| ambient temperature during operation | |
| • minimum | -40 °C |
| • maximum | 70 °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 |
| Environmental footprint | |
| Environmental Product Declaration (EPD) | Yes |

| | |
|--|-----------------|
| global warming potential [CO2 eq] total | 11.7 kg |
| global warming potential [CO2 eq] during manufacturing | 0.916 kg |
| global warming potential [CO2 eq] during operation | 10.8 kg |
| global warming potential [CO2 eq] after end of life | -0.102 kg |
| Siemens Eco Profile (SEP) | Siemens EcoTech |

Approvals Certificates

General Product Approval

[Confirmation](#)



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other

Dangerous goods

Environment

[Confirmation](#)



[Transport Information](#)

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)

Further information

Information on the packaging

<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=5SL6032-6MF>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6032-6MF>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6032-6MF

CAX-Online-Generator

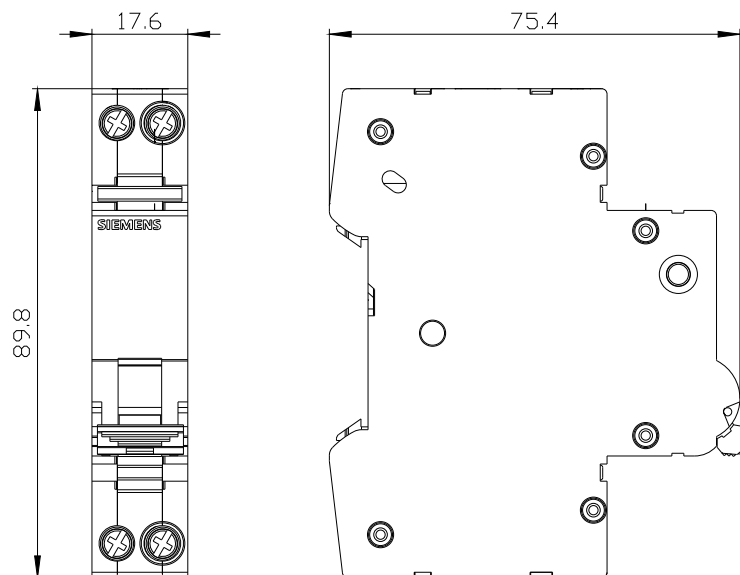
<https://www.siemens.com/cax>

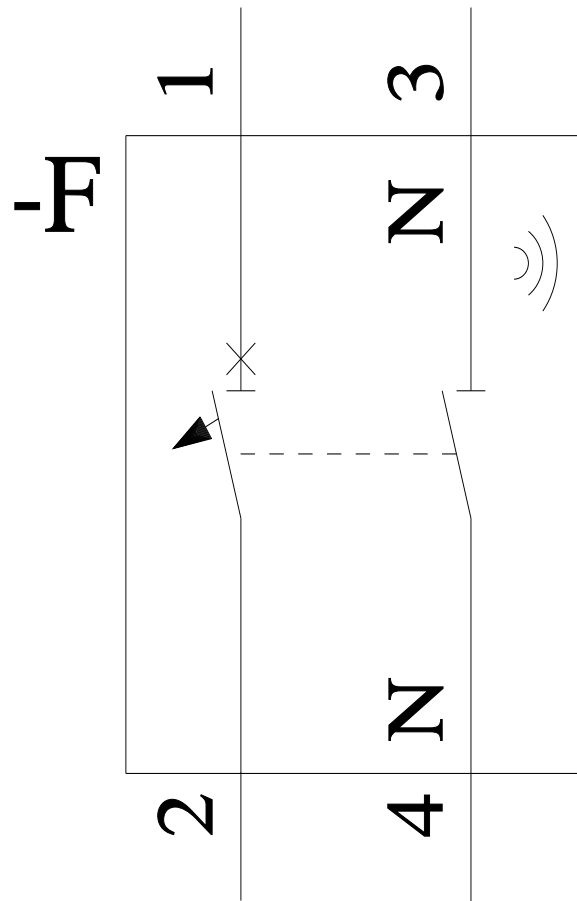
Tender specifications

<https://www.siemens.com/specifications>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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