

RCM-CT - plug-on differential current transformer / residual current transformer (type A)

Download data sheet

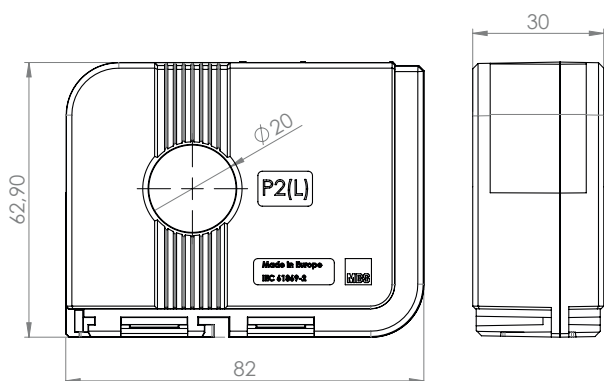


The new generation of differential/residual current transformers. Particularly suitable for RCM universal measurement devices of type UMD.

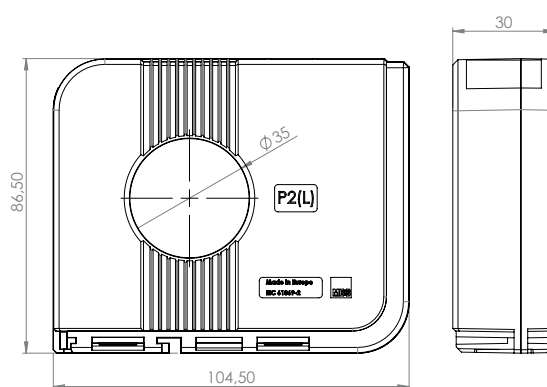
The transformer detects very low currents (0.0167 A) and thus enables the measurement and evaluation of residual and fault currents in conjunction with a UMD (RCM).



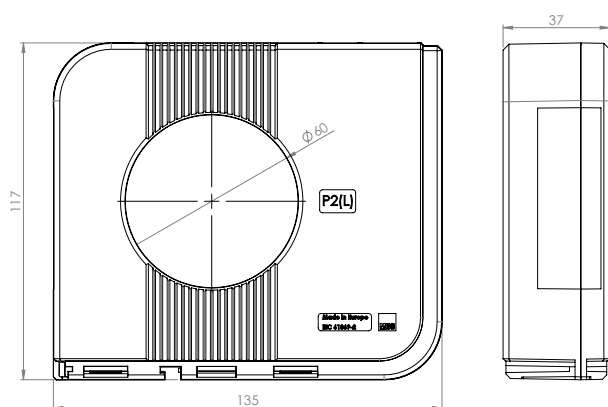
RCM-CT20



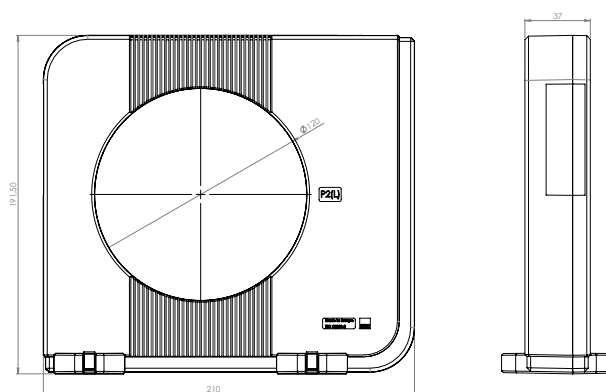
RCM-CT35



RCM-CT60



RCM-CT120



RCM-CT - plug-on differential current transformer / residual current transformer (type A)

| | RCM-CT20 | RCM-CT35 | RCM-CT60 | RCM-CT120 |
|--|---|-----------------------------|-----------------------------|-----------------------------|
| Item number | 03.38.1020 | 03.38.1035 | 03.38.1060 | 03.38.1120 |
| Data | Residual current transformer type A | | | |
| Mechanical | | | | |
| Housing material | Coycoloy C2100HF; RAL 3020; UL 94-VO | | | |
| Primary conductor opening | Ø 20 mm | Ø 35 mm | Ø 60 mm | Ø 120 mm |
| Dimensions [mm] | 82 x 63 x 30 | 104.5 x 86.5 x 30 | 135 x 117 x 37 | 210 x 191.5 x 37 |
| Weight | approx. 145 g | approx. 240 g | approx. 390 g | approx. 950 g |
| Operating temperature range | -10 ... 70 °C | | | |
| Insulation class | E | | | |
| Secondary connection | Spring-loaded terminals, WAGO terminal 741-901; 4-pole; 0.08...2.5 mm ² Stripping length of the connecting wires 5...6 mm | | | |
| Electrical insulation coordinates IEC60664-1 / IEC60664-3 | | | | |
| Rated voltage | 800 V | | | |
| Rated surge withstand voltage / degree of contamination | 8 kV / III | | | |
| Primary rated differential current I _{ΔN} | 10 A | 10 A | 10 A | 10 A |
| Secondary rated differential current | 0.0167 A | 0.0167 A | 0.0167 A | 0.0167 A |
| Transmission ratio | 600/1 | 600/1 | 600/1 | 600/1 |
| Rated load | 180 Ω / 50.2 mVA | 180 Ω / 50.2 mVA | 180 Ω / 50.2 mVA | 180 Ω / 50.2 mVA |
| Operating frequency range | 30 Hz ... 3 kHz | 30 Hz ... 3 kHz | 30 Hz ... 3 kHz | 30 Hz ... 3 kHz |
| Secondary overvoltage protection (integrated) | Supressor diode P6KE68VA | Supressor diode P6KE68VA | Supressor diode P6KE68VA | Supressor diode P6KE68VA |
| Measuring range | 0.03...40 A | 0.03...40 A | 0.03...40 A | 0.03...40 A |
| Thermal rated continuous differential current I _{ctH} | 40 A | 40 A | 40 A | 40 A |
| Thermal rated short-term current I _{th} | 60xI _{ΔN} / 1 s | 60xI _{ΔN} / 1 s | 60xI _{ΔN} / 1 s | 60xI _{ΔN} / 1 s |
| R _{ct} (75°C) | 5...8 Ω | 5...8 Ω | 5...8 Ω | 5...8 Ω |
| L(U _{sek} =100mV; 50 Hz) | 8...12 H | 8...12 H | 8...12 H | 5...12 H |
| Accuracy class | 3 | 3 | 3 | 3 |
| Connection cables | Single wire: ≥ 0.75 mm ² Single wires (twisted): ≥ 0.75 mm ² Shielding cable: ≥ 0.50 mm ² Recommendation: J-Y(St)Y ≥ 2 x 0.80 mm ² | | | |
| Climate classes (IEC 60721) | | | | |
| Stationary use (IEC 60721-3-3) | 3K5 (without condensation and ice formation) | | | |
| Transport (IEC 60721-3-2) | 2K5 (without condensation and ice formation) | | | |
| Long-term storage (IEC 60721-3-1) | 1K5 (without condensation and ice formation) | | | |
| Protection type | | | | |
| Housing | IP 40 | | | |
| Terminals | IP 20 | | | |