

## RCM-CT - Clip-on differential transformer / residual transformer (type A)

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data sheet

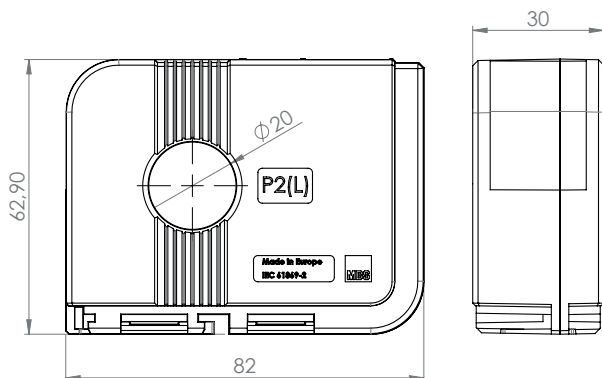


The new generation, the differential current/error transformer. Especially suitable for the RCM measuring devices type UMD.

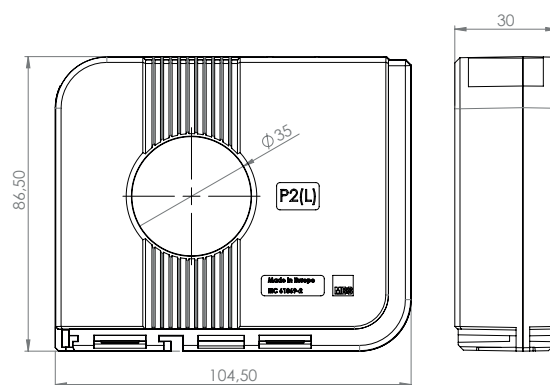
The transformer detects very small powers (0.0167 A) and thus, in conjunction with a UMD (RCM), enables the measurement and evaluation of differential and residual currents.



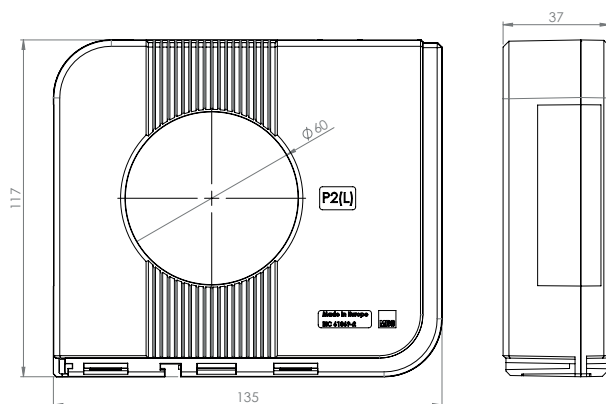
### RCM-CT20



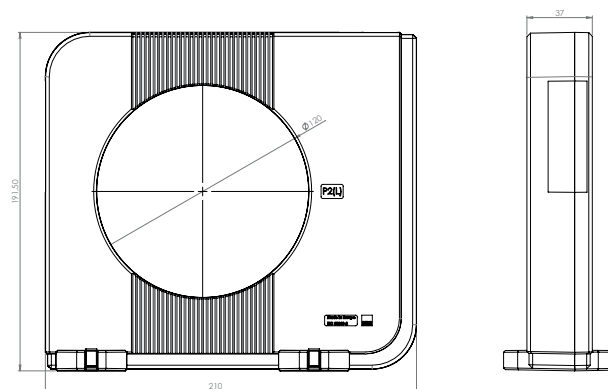
### RCM-CT35



### RCM-CT60



### RCM-CT120



## RCM-CT - Clip-on differential transformer / residual 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	Differential 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 <sup>2</sup> Stripping length of the connecting wires 5...6 mm			
Electrical insulation coordinates IEC60664-1 / IEC60664-3				
Rated voltage	800 V			
Rated impulse voltage / Pollution level	8 kV / III			
Primary rated differential current I <sub>ΔN</sub>	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
Design load	180 Ω / 50.2 mVA	180 Ω / 50.2 mVA	180 Ω / 50.2 mVA	180 Ω / 50.2 mVA
Working frequency range	30 Hz - 3 kHz	30 Hz - 3 kHz	30 Hz - 3 kHz	30 Hz - 3 kHz
Secondary overvoltage protection (integrated)	Suppressor diode P6KE68VA	Suppressor diode P6KE68VA	Suppressor diode P6KE68VA	Suppressor 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 <sub>cth</sub>	40 A	40 A	40 A	40 A
Thermal rated short-time withstand current I <sub>th</sub>	60xI <sub>ΔN</sub> / 1 s	60xI <sub>ΔN</sub> / 1 s	60xI <sub>ΔN</sub> / 1 s	60xI <sub>ΔN</sub> / 1 s
R <sub>ct</sub> (75°C)	5-8 Ω	5-8 Ω	5-8 Ω	5-8 Ω
L(U <sub>sek</sub> =100mV; 50 Hz)	8-12 H	8-12 H	8-12 H	5-12 H
Accuracy class	3	3	3	3
Connection lines	Single wire: ≥ 0.75 mm <sup>2</sup> Single wires (twisted): ≥ 0.75 mm <sup>2</sup> Shield cable: ≥ 0.50 mm <sup>2</sup> Recommendation: J-Y(St)Y ≥ 2 x 0.80 mm <sup>2</sup>			
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 class				
Housing	IP 40			
Clamps	IP 20			