

MRE-CT1233

Current Transformer | up to 2000 A / 5 A

Power supply

Operating voltage range AC < 720 V

Measuring circuit

Measurement current range $\leq 1 \times I_N$
 Max. current $60 \times I_N, 1 \text{ s (max. 100 kA)}$
 Power consumption at 5 A $0.36 \text{ VA/m (2.5 mm}^2 \text{ wire)}$
 Rated base frequency 50 ... 60 Hz

Insulation

Rated test voltage measuring / measuring circuit 3 kV rms / 1 min, $U_m < 720 \text{ V}$

General data

Ambient temperature storage (no ice) $-25 \dots 70 \text{ }^\circ\text{C}$
 Ambient temperature operation $-5 \dots 50 \text{ }^\circ\text{C}$
 Dimension fig. 2
 Protection degree IP20
 Housing material ABS

Product reference

| Description | Type | A |
|-------------------------|---------------------------|---|
| Class 0.2s, power 10 VA | MRE-CT1233-.../5A/10-0.2S | ✓ |
| Class 0.5, power 10 VA | MRE-CT1233-.../5A/10-0.2S | ✓ |

Other transmission ratio on request. Please contact support@comatreleco.com.

"..." list primary current to complete product references.



fig. 1. Wiring diagram

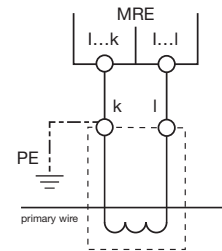
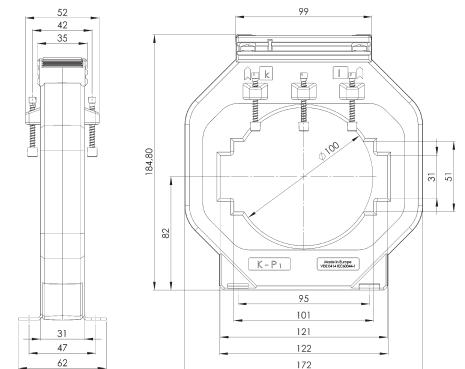


fig. 2. Dimension (mm)



Standards and approvals

Standards IEC/EN 61869

Approvals

| | Description | MRM11 | MRM11R | MRM32 | MRM32R | MRU11 | MRU32 | MV53 | SSU34 | SSU31 | SSU33L | MRI11 | MRI32 | TSR19 | ESU-D2R | CT515R | CT524R | |
|--------------------------|---|-------|--------|-------|--------|-------|-------|------|-------|-------|--------|-------|-------|-------|---------|--------|--------|--|
| Monitoring | One phase voltage monitoring | ● | ● | | | ● | | ● | | | | | | | | | | |
| | Three phase voltage monitoring | | | ● | ● | | ● | | ● | | ● | | | | | | | |
| | Four channel voltage measuring | | | | | | | | | | | | | | | | | |
| | DC Voltage monitoring | ● | ● | ● | ● | ● | ● | | | | | | | | | | ● | |
| | One phase current monitoring | ● | ● | | | | | | | | | | ● | | | | | |
| | Three phase current monitoring | | | ● | ● | | | | | | | | | ● | | | | |
| | Four channel current measuring | | | | | | | | | | | | | | | | | |
| | DC current monitoring | ● | ● | ● | ● | | | | | | | | ● | ● | | | ● | |
| | Phase failure | | | ● | ● | | ● | | ● | ● | ● | | | | | | | |
| | Phase sequence monitoring | | | ● | ● | | ● | | ● | ● | ● | | | | | | | |
| | Phase angle monitoring / measuring* | | | ● | ● | | ● | | ● | | ● | | | | | | | |
| | Differential voltage monitoring / measuring* | | | | | | | | ● | | ● | | | | | | | |
| | Neutral failure monitoring | | | | | | | | ● | | ● | | | | | | | |
| | Frequency monitoring / measuring* | ● | ● | ● | ● | ● | ● | | ● | | ● | ● | | | | | | |
| | Apparent power monitoring / measuring* | ● | ● | ● | ● | | | | | | | | | | | | | |
| | Active power monitoring / measuring* | ● | ● | ● | ● | | | | | | | | | | | | | |
| | Power factor monitoring / measuring* | ● | ● | ● | ● | | | | | | | | | | | | | |
| | Active energy measuring | | | | | | | | | | | | | | | | | |
| | THDI / THDU measuring | | | | | | | | | | | | | | | | | |
| | PTC monitoring | | | | | | | | | | | | | | ● | | | |
| Earth failure monitoring | | | | | | | | | | | | | | | ● | | | |
| Functions | Threshold „over“ exceeded fig. 3. | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | | ● | ● | |
| | Theshold „under“ exceeded fig. 4. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | „Inside“ band entered fig. 2. | ● | ● | ● | ● | ● | ● | | | | | ● | ● | | | ● | ● | |
| | „Outside“ band entered fig. 1. | ● | ● | ● | ● | ● | ● | | | | | ● | ● | | | ● | ● | |
| | Alarm on-delay | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | |
| | Alarm off-delay | ● | ● | ● | ● | ● | ● | ● | | | | | ● | ● | | | | |
| | Latching alarm output function | ● | ● | ● | ● | ● | ● | | | | | | ● | ● | ● | | | |
| | Threshold selectable | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● | ● | |
| | Threshold fixed | | | | | | | | | ● | ● | | | | ● | | | |
| Power supply | Supply isolated from measuring circuit | ● | ● | ● | ● | ● | ● | | | | | ● | ● | ● | ● | | | |
| | Supply from measure circuit | | | | | | | ● | ● | ● | ● | | | | | ● | ● | |
| Mounting | DIN rail mounting | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | | ● | | | |
| | Housing according IEC/EN 43880 (electrical distribution mounting) | ● | ● | ● | ● | ● | ● | ● | | | | ● | ● | | | | | |
| | Plug-in (socket mounting) | | | | | | | | | ● | ● | ● | | ● | | ● | ● | |

