



Features

- Measures AC current or voltage
- CT connected ammeters
- Direct and VT connected voltmeters
- Linear scaling
- 240° long scale version
- x6 overload

Benefits

- Easy to operate
- Exchangeable dial
- Low consumption
- Terminal cover included

Applications

- AC switchgears, panels and distribution boards

Construction

- Mean value measurement of current or voltage
- Containing germanium diodes of low reverse current
- Slot in screw fixing

Standards

- CE marked
- BV approved

Long Scale Moving Coil Rectified AC Ammeter and Voltmeters

General Specification

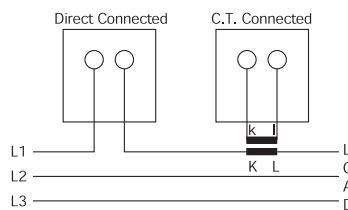
- Accuracy class - 1.5
- Maximum continuous overload - $1.2 \times I_n$, $1.2 \times U_n$
- Maximum short duration overload - $10 \times I_n - 9 \times 0.5s + 1 \times 5s/60s$ - $2 \times U_n - 9 \times 0.5s + 1 \times 5s/60s$
- Frequency - 50/60Hz

Product Codes

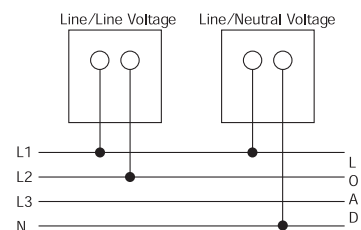
| Bezel size (mm) | 48 | 72 | 96 | 144 |
|--|---|-----------|-----------|----------|
| Scale length (mm) | 71 | 113 | 155 | 235 |
| AC ammeter rectified 240° | M242-05B | M243-05B | M244-05B | M246-05B |
| AC voltmeter rectified 240° | M242-05W | M243-05W | M244-05W | M246-05W |
| AC ammeter rectified 240° x6 overload | | M243-056B | M244-056B | |
| Standard input ranges | | | | |
| AC ammeter rectified 240° scaling (O/x A) meter (O/x A), (O/ x A x6), 1, 5A M243, M244 | 1, 5A (M242-05B delivered with separated current transformer) | | | |
| AC voltmeter rectified 240° scaling (O/x V) | 10, 15, 20, 30, 60, 100, 150, 250, 300 (limit at M242), 400, 500, 600 V | | | |
| AC voltmeter for VT connection (O/x V) | 120V (for use with VT`s x/100V), 132V (for use with VT`s x/110V), 144V (for use with VT`s 120V), 125V, 137,5V, 150V (for use with some VT`s having primary voltage less then 1kV) | | | |

Connection Diagrams

AC Ammeter



AC Voltmeter



Order data/examples

Ammeter

- 1) Select type: M243-05B,
- 2) Specify input: 0-1A,
- 3) Specify scaling: 0-1kA,
- 4) Specify frequency: 50/60Hz

Voltmeter

- 1) Select type: M244-05W,
- 2) Specify input: 0-500V,
- 3) Specify scaling: 0-500V,
- 4) Specify frequency: 50/60Hz

Voltmeter, VT connected

- 1) Select type: M244-05W,
- 2) Specify input: 0-120V,
- 3) Specify scaling: 0-12kV,
- 4) Specify frequency: 50/60Hz,
- 5) Specify VT ratio: 10/0.1 kV