

Metalohm Series

Cold Rolled Steel Encased Wirewound Heatsinkable Radial Terminal



FEATURES

- Flameproof and inorganic
- Higher power rating due to heat sink capacity
- All welded construction
- Nonhygroscopic
- High surge construction

OPTIONS

- Noninductive versions (Aryton-Perry windings)
- Terminal sleeves to increase dielectric strength and maximize creepage distance
- Variety of terminal choices
- Potted or soldered wire terminals including quick connect, ring, spade terminals
- Tapped models

SERIES SPECIFICATIONS

| Style | Watts w/o heat sink | Watts w/ heat sink* | Ohmic range** |
|----------|---------------------|---------------------|---------------|
| 20/45M | 20 | 45 | 0.05-6K |
| 40/70M | 40 | 70 | 1.0-25K |
| HV40-70M | 40 | 70 | 1.0-25K |
| 50/100M | 50 | 100 | 1.5-47.5K |
| 60/115M | 60 | 115 | 2.5-81K |
| 85/150M | 85 | 150 | 4.5-100K |

*Based on a 12"x12"x0.125" aluminum heat sink, using a thermal compound, in a 25°C ambient

**Standard winding ranges only listed, other values available; contact Ohmite.

CHARACTERISTICS

| | |
|--------------------------------|---|
| Wattage | Based on a 275°C "U" characteristic derating curve |
| Temperature coefficient | <ul style="list-style-type: none"> ≥18 ohm: 0 ±90ppm/°C 8 < 18 ohm: 0 ±50ppm/°C <8 ohm: 0 ±180ppm/°C (TC for some watt/ohm combinations may be lower) |
| Dielectric strength | Terminal to case, depends on terminal style (1500V min.) |
| Creepage | <ul style="list-style-type: none"> term. style 277: 1.2" term. style 278: 0.4" term. style 276: 0.7" term. styles 211/252/279: 0.15" |
| Termination Wires | <ul style="list-style-type: none"> • Stranded, available in any insulation rated 125°C or higher (may require term. style 297). • 12" standard length for term. 297 & 298 (custom lengths available) • Can be potted or pre-soldered to terminal styles 211 or 252 • Quick connect (fully or partially insulated), ring or spade terminations available |
| Dielectric Sleeves | <ul style="list-style-type: none"> • Steatite construction • Style 276 meets UL/NEMA 2500V RMS for one minute requirement • Available as terminal styles 276, 277, 278, 297 |

Dielectric Strength/Terminal Availability

| Terminal Type | 211 | 252, 279 | 276 | 278 | 277 | 297 | 298 |
|-----------------|----------------------------|----------|------|------|------|-------|-------|
| Style | Dielectric Strength | | | | | | |
| 20/45M | 1500 | N/A | N/A | N/A | N/A | 2500V | 2500V |
| 40/70M | 1500 | 1500 | 2500 | 2500 | N/A | 2500V | 2500V |
| HV40/70M | N/A | N/A | N/A | N/A | 4250 | N/A | N/A |
| 50/100M | 1500 | 1500 | 2500 | 2500 | N/A | 2500V | 2500V |
| 60/115M | 1500 | 1500 | 2500 | 2500 | N/A | 2500V | 2500V |
| 85/150M | 1500 | 1500 | 2500 | 2500 | N/A | 2500V | 2500V |

(continued)

Metalohm Series

Cold Rolled Steel Encased Wirewound Heatsinkable Radial Terminal

DIMENSIONS

(in.)



| Style | A | B | C | D |
|----------|---------------------------------|--------------------------------|--------------------------------|-----------------------------|
| 20/45M | 1 | 1 ⁷ / ₁₆ | 1 ⁷ / ₈ | ³ / ₄ |
| 40/70M | 2 ⁹ / ₁₆ | 3 | 3 ⁷ / ₁₆ | ³ / ₄ |
| HV40-70M | 2 ⁹ / ₁₆ | 3 | 3 ⁷ / ₁₆ | ⁷ / ₈ |
| 50/100M | 3 ¹¹ / ₁₆ | 4 ¹ / ₈ | 4 ⁹ / ₁₆ | ³ / ₄ |
| 60/115M | 5 ⁹ / ₁₆ | 6 | 6 ⁷ / ₁₆ | ³ / ₄ |
| 85/150M | 7 ¹ / ₂ | 8 | 8 ¹ / ₂ | ³ / ₄ |

ORDERING INFORMATION

Not all terminal types available for all Metalohm sizes

