

# 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

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

### Dielectric Strength/Terminal Availability

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

(continued)

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### DIMENSIONS

(in.)



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

### ORDERING INFORMATION

Not all terminal types available for all Metalohm sizes

