

## Customized Stainless Steel Braking Resistor



### CAPABILITIES

- **Low power:** load bank, overvoltage limiter, crowbar, precharge, dynamic braking
- **Medium power:** braking (tramways, subways, rolling mills), inrush current limiter, static load bank
- **High power:** braking (locomotive, high speed train, haul mining trucks), control of high power motors, power generator load bank

### CONTACT INFORMATION

For design assistance, contact: [mcbfixedresistors@vishay.com](mailto:mcbfixedresistors@vishay.com)

Design request form:

### STANDARD ELECTRICAL SPECIFICATIONS RANGE OVERVIEW

| MODEL        | RATED POWER<br>W | COOLING           |
|--------------|------------------|-------------------|
| Low power    | 1K to 20K        | Natural           |
| Medium power | 10K to 400K      | Natural or forced |
| High power   | 1M to 5M         | Forced            |

### DESCRIPTION

Vishay MCB has established an expertise in the field of high and very high power resistors. We support the traction markets, including railway, haul mining trucks and naval, motor power control, power generators.

These examples are representative of our main markets.

Our range of products is not limited to these models.

Please do not hesitate to contact us for further details about your application.

### PERFORMANCE FROM DESIGN TO SERVICE

Our product range utilizes standardized and modular elements, combined into tailored systems, optionally including cooling systems.

This ensures:

- faster design, qualification, production
- ultimate reliability, the vast majority of key components are broadly utilized and proven in the field
- a guaranty of long time availability, service, and spares
- competitiveness through a scale economy

From your specification, Vishay MCB will provide a solution which is both technically and economically optimized.

### THERMAL YIELD

The design, achieved through an extensive utilization of computer assisted design of mechanical and thermal models grants high thermal performances.

### STABILITY / LOW MAINTENANCE COST

Vishay MCB's metal resistors do not require any specific maintenance.

Periodic inspection and cleaning is what it takes.

### RELIABILITY

Stabilized processes including:

- electric welding of resistive elements and connections
- resistive elements stamping without restriction of the electrical path

The way mechanical parts are secured:

- expansion focused and controlled
- fixation on cold areas

High grade materials selection: ensure reliability and ruggedness in the most severe conditions.



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