



# Tab-Weld® Power Resistors



## Class 6715 Power Resistor

### EC&M's Power Resistors are More Rugged, Last Longer

EC&M's Power Resistors are built to withstand the test of time and the punishing effects of conductive dust, shock and vibration by using stainless steel tabs and grids and powder coated end frames. EC&M's rugged mill-duty Tab-Weld® resistors are 100% fabricated and assembled at the company's manufacturing facility in St. Matthews, SC.

### Withstands the Most Severe Environmental Conditions

Introduced in the 1950's, Tab-Weld® Resistors withstand the most severe environmental conditions. These rugged and dependable power resistors are built to take the punishing effects of shock and vibration - whether mounted in enclosed resistor racks or as stand-alone devices.

### Used in Metal, Cement, Paper and Mining Industries

Application examples include:

- Acceleration and speed regulation resistors for crane and mill drives
- DB Resistors for AC variable frequency drives
- Motor starter resistance
- Load banks for generator regulation
- General speed regulating resistance

## EC&M's Tab-Weld® Power Resistor

### Ratings, Sizes and Features

- Continuous ampere ratings of 13 to 500A
- Available in 26 ½", 18" and 12 ½" sections
- Interchangeable with most other grid resistors
- Can be custom-designed to fit the customer application (new or replacement)

### Grids

- Interior grids series connected
- Individual grids are stamped from chromium alloy stainless steel, then welded to provide a continuous current path.
- Grids up to and including the 72 ampere capacity grid are embossed resulting in greater strength and rigidity

### Grid Insulators

- Steel spacers and large mica washers create high resistant to shock damage
- Resistor failure due to cracked or broken spacers is virtually eliminated
- Mica washers provide protection from grid to grid shorts caused by conductive dust build up

### End-Frame Insulator

- Molded high impact end-frame insulators provide double insulation to ground
- Hold grid structure securely in place

### Terminal Plates

- Integral part of the welded assembly
- Held in place by two support rods that prevent against grid distortion caused when terminal lugs are tightened

### End Frames

- Independently bolted to support rods to maintain accurate mounting dimensions
- Enables customer to mount the individual resistors in a stack or in mounted in racks

### Insulated Support Rods

- Mica tubes are used on the support rods for maximum insulation



The Electric Controller and  
Manufacturing Company, LLC

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### EC&M's Tab-Weld Resistors

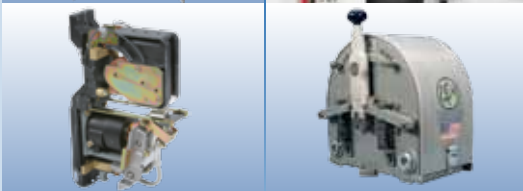
- Used in motor circuits to control acceleration and speed
- Applicable where environmental conditions of vibration and dirt are severe
- Sold as a single unit or as a grouped resistor set, either enclosed or open configurations



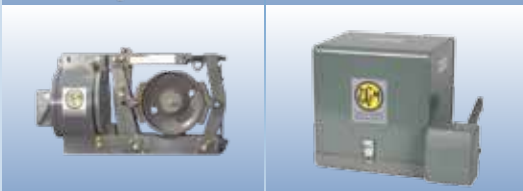
**DC/AC  
Electromechanical  
and Electronic  
Crane Control**



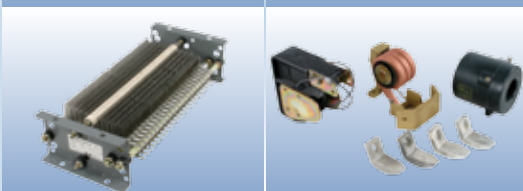
**Contactors,  
Relays and  
Master Switches**



**Brakes and  
Limit Switches**



**Power Resistors,  
Replacement Parts  
and OEM Kits**



### EC&M — For All Your Crane Control Needs

Let EC&M's "Crane Gang" minimize your down-time and increase your up-time with best-in-the-industry application expertise and time tested products. From AC and DC drive control systems, to traditional AC and DC electromechanical contactor control, EC&M offers the most complete line of crane control products available.

*Crane Control. What we do. All we do.*



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