



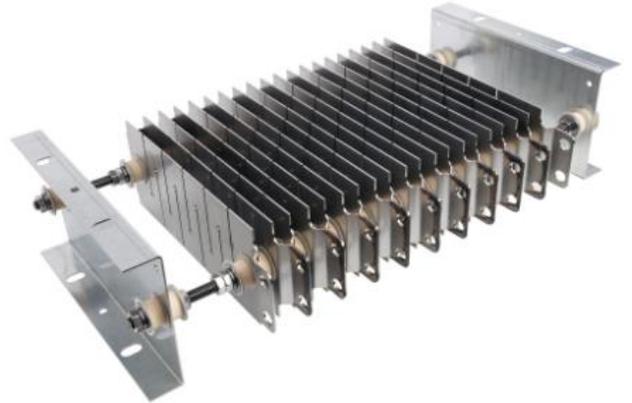
Dynamic Braking Resistors At Your Fingertips

Vishay Milwaukee Series:

- GRE1, GRES: <http://www.vishay.com/doc?31833>

What they do

- When a load is being decelerated, the motor acts as a generator, converting kinetic energy of the load to electrical energy. The dynamic braking circuit converts this electrical energy into heat to slow the load, through the use of dynamic braking resistors. Braking resistors ensure proper motor operation, allow heavy loads to stop quickly and protect the drive from damage.



Electrical Capabilities

- Full range of power and resistance capabilities
- Optional terminal blocks and thermal switches
- Grid and wirewound resistor technologies

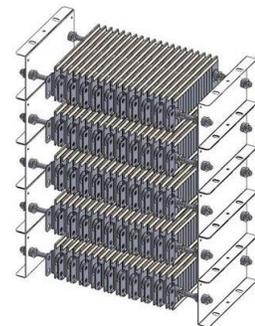
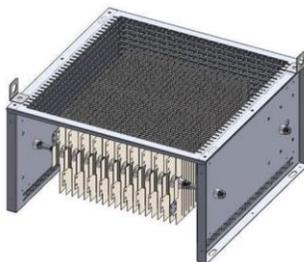
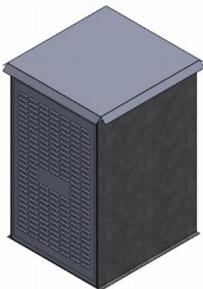
Key Parameters

- IP00, IP20 and IP23 rated mounting configurations
- Stainless Steel resistor elements offer high thermal capacity

Application Specifics

- Found in the Oil & Gas, Industrial, Renewable and Energy markets.
- Used with both AC Variable Frequency-Drives and DC Drive Applications such as: Overhead Cranes, Port Cranes, Industrial Factories (automated production lines), Large Ships

Examples of Various Form Factors (not to scale with each another)



How Can We Help

- What are the requirements as specified by the drive manufacturer (ohms, watts, duty cycle)?
- Do you have any special requirements for the resistor assembly and mounting configuration?
- If using an IP rated enclosure do you require a terminal block, thermal switch, lifting eyes, etc.?



Dynamic Braking Resistors At Your Fingertips

Information Required for Quote

Nominal Ohms: _____
(typical tolerance is 10%. If lower is required please include that info)

Is there an absolute Minimum ohms requirement? : _____
(Motor manufacturers will often provide a minimum resistance for braking resistor)

Is there an absolute Maximum ohm requirement? : _____
(some applications require a minimum current which means resistance shouldn't exceed "x")

Average Continuous Duty Power: _____

IF Cycled Application:	
Peak Power	_____
(average of the on time)	
Seconds ON	_____
Seconds OFF	_____

DC Bus Voltage: _____

Enclosure Info

Type: Indoor Screen (IP20) Outdoor (IP23) Frames only (IP00)

Finish: Mill Galvanized Stainless Steel Other

Other considerations/adders:

Space limitations: _____

Thermal Switch kit: _____

(NC snap action thermal switch wired to a Terminal Block or No Switch)



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