Backer Cynebar Ohmic Pty Ltd
Unit 11& 12, 6 Whitelaw Place
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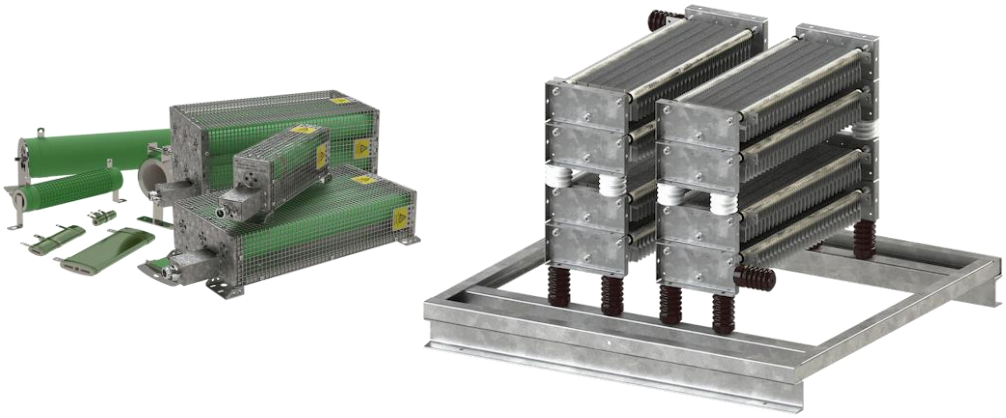
Ph (07) 3252 4270

PAGE 1 — BRAKING RESISTOR INFORMATION



APPLICATION SUMMARY

Resistor assemblies are designed to withstand high pulse loads and repetitive braking cycles while maintaining thermal stability and long operating life. Custom resistance values, power ratings, duty cycles, and enclosure configurations can be supplied to meet specific application requirements.

Typical applications include:

- Variable Speed Drive (VSD) braking systems
- Cranes and hoists
- Conveyors
- Elevators and escalators
- Rail and transport applications
- Winders and winches

KEY FEATURES AND BENEFITS

- High energy dissipation capability
- Designed for intermittent and continuous duty applications
- Excellent thermal stability under cyclic loading
- Long service life with reliable performance
- High overload withstand capability
- Custom resistance values and power ratings
- Natural convection or forced-air cooling options
- Indoor and outdoor enclosure options
- Corrosion-resistant materials available
- Australian designed and manufactured
- Short lead times for custom-engineered solutions

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PAGE 2 — ENGINEERING INFORMATION

DIMENSIONS AND TOLERANCES

Available configurations include:

- Open-frame resistor banks
- Enclosed resistor assemblies
- Floor-mounted resistor banks
- Wall-mounted resistor units
- IP-rated outdoor enclosures
- Forced ventilation systems
- Stainless steel assemblies for corrosive environments
    1. Resistance - +/- 5% Standard, +/- 1% available upon request
    2. Dimensions - +/-2mm

MATERIALS OF CONSTRUCTION

Resistor assemblies are manufactured using high-quality materials selected to provide mechanical strength, thermal performance, and corrosion resistance.

- Nickel-Chromium (NiCr) resistance elements
- Stainless steel resistor grids or coils
- High-temperature ceramic insulators
- Galvanised steel support frames
- Powder-coated mild steel enclosures
- Stainless steel 304 or 316 enclosures
- Copper busbars and terminals
- High-temperature insulated connection hardware

ELECTRICAL, THERMAL OR MECHANICAL PERFORMANCE

Voltage: 12V to 3000V AC/DC

Power Rating: 100 Watts to Mega Watts

IP20 to IP66

STANDARDS AND CERTIFICATIONS

AS/NZS 3000 – Electrical Installations (Wiring Rules)

IEC 60529 – Degrees of Protection (IP Ratings)