



Solid-State IGBT Magnet Control

Infinitely variable current control for all lifting magnets
Magnets operate at the lowest possible temperature

Optimize Every Magnet

Adjustable current and times for all operating modes
to maximize performance, optimize production and
prolong magnet life

Operating Modes

with existing 2 or 3 position operator controls

- LIFT – 100% voltage applied in less than 50ms
- HOLD – Lift Current automatically reduced to optimized Holding Current
- FEATHER – Magnet current slowly reduced
- INSTANT DISCHARGE – Magnet discharges through IGBT circuit – No voltage spike
- CLEAN – 100% Reliable – Instant reversal of magnet current – No voltage spike
- SWEEP – Current set to a low level to clean a rail car without moving the car
- INHIBIT NEXT LIFT – Won't allow initiation of a new lift in battery backed applications when main supply is lost



M350-4291 • Patented Technology

Improve Production Capacity – Run Cooler – Save Energy

- Increased Lift Capacity
- Reduced discharge time
- Reduced cleaning time
- Reduce cycle time
- Improved lift capacity throughout the shift
- Reduced magnet operating temperatures – Fewer magnet change-outs

Additional Benefits

- Solid-state construction – No moving parts
- Less maintenance
- Use existing connections
- Uses existing or new operator controls
- Uses existing DC power supply
- Use existing or new magnet
- Eliminates need for dual voltage magnet controls
- Voltage spikes eliminated – Protects the entire electrical system

Specifications

- **Voltage:** 230 VDC Nominal, 300 VDC Max, 120 VDC min
- **Rated Current at 50% Duty Cycle:**
300 Amps in -10°C to +50°C environment or 250 Amps in -10°C to 60°C environment
- **Operating modes:** Lift, Hold, Feather, Clean
- **Dimensions:** 43 ½" (L) x 24" (W) x 14" (D) Approx.
- **Weight:** 135lbs approx.
- **Diagnostics & Parameter Adjustment** – Data Terminal, Part No. A62499

**Control the Current
Control the Magnet**

Designed and Manufactured by:

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Specifications subject to change without notice.

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