



OPTIMIZER™ MAGNET CONTROL For All Magnets

RETROFITS & NEW INSTALLATIONS
Patent Pending



M350



M200



M100

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

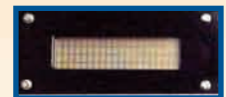
- LIFT – 100% voltage applied in less than 50ms
- HOLD – Lift Current automatically reduced to optimized Holding Current
- DRIBBLE – Magnet current slowly reduced
- DROP – Instant discharge through IGBT Discharge Circuit—No voltage spikes
- CLEAN – Instant reversal of magnet current – No voltage spikes!

IMPROVE PRODUCTION – RUN COOLER

- Reduced drop time
- Reduced cleaning time
- Fewer magnet change-outs
- Adjustable dribble time
- Improved lift capacity throughout the shift

ENERGY EFFICIENT

- Reduced power consumption
- Reduced magnet temperature
- Voltage spikes eliminated – Protects the entire crane electrical system



LCD Operator Display

ADDITIONAL BENEFITS

- No contactors
- Less maintenance
- Use existing magnet or new
- Use existing connections
- Solid-state construction – No moving parts
- Use existing DC power supply
- Use existing operator controls or new
- Eliminates need for dual voltage magnet controls

OPTIONS

- Continuous measurement of magnet core-temperature
- RS485 communications for remote monitoring or automation

FEATURES

- LCD operator display – Continuous updating of operating status
- Displays fault messages
- Magnet over-temperature alarm



Data Terminal

OPTIMIZER™ MAGNET CONTROL

For All Magnet Sizes



M350



M200



M100

SPECIFICATIONS:

- Voltage
 - 230 VDC Nominal
 - 300 VDC Maximum
 - 120 VDC Minimum
- Logic Type – Microprocessor
- Ambient Temperature Range – +60°C Maximum to -10°C Minimum
- Diagnostics & Parameter Adjustment – Data Terminal, Part No. A62499
- User Adjustable Parameters
 - Lift Current
 - Holding Current
 - Dribble Level
 - Cleaning Current
- Current Range
 - M100: Up to 100 Amps Maximum
 - M200: Up to 200 Amps Maximum
 - M350: Up to 350 Amps Maximum
- Lift Time (time before reducing Lift Current to Holding Current)
- Magnet Discharge Voltage
- Dribble Time
- Cleaning Time



ORDERING INFORMATION

Visit our websites at:
www.ohiomagnetics.com
www.hbdindustries.com

M350-CONTROL VOLTAGE. SPECIFY OPERATOR CONTROL VOLTAGE: 12VDC, 24VDC, 240VDC, 120VAC.
 350 amp magnet controls complete in a NEMA12 enclosure. No external disconnect provided.

M200-CONTROL VOLTAGE. SPECIFY OPERATOR CONTROL VOLTAGE: 12VDC, 24VDC, 240VDC, 120VAC.
 200 amp magnet controls complete in a NEMA12 enclosure. No external disconnect provided.

M100-CONTROL VOLTAGE. SPECIFY OPERATOR CONTROL VOLTAGE: 12VDC, 24VDC, 240VDC, 120VAC.
 100 amp magnet controls complete in a NEMA12 enclosure. No external disconnect provided.

(Part Number Example: M350-24VDC)

Auxiliary Component – A62499 - Data Terminal, Cable & Case.

Specifications subject to change without notice.



Authorized Distributor:



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