



LMC™ Hoist Controls

Retrofits & New Installation

Hoist Controls for up to 500HP Hoist Motors

Solid-State IGBT Control of series-wound DC hoist motors delivers high torque at startup, adjustable speed points and acceleration / deceleration ramps, electric braking and elimination of all contactor problems

Easy Retrofit Installations

- Connect existing power cables
- Connect existing motor cables
- Connect existing brake cables
- Connect existing operator controls
- Fine-tune pre-set acceleration ramps, speed points and braking

Save Energy Costs

Motor energy consumption reduced by 66.5% plus torque boost at startup is 7 amps in the motor for every 1 amp drawn from the power source—motors work easier and last longer

Save Maintenance Costs

Solid-state construction, no wear components plus microprocessor control of contactors means contactors never make or break a load

LMC Hoist Control Technology Eliminates problems caused by

- Brownouts and discontinuity of the power supply
- Substantial negative ring of supply voltages
- Positive-going transients caused by switching off other machines

Additional Benefits

- Open architecture panel design
- All components easily accessible
- Multiple operator control choices
- Fault register for easy troubleshooting
- Hand-held data terminal for setup, changes in setup and diagnostics
- Works with Series Brakes and/or Shunt Brakes—specify when ordering
- Duplex & quadruplex available

Typical Specifications:

- **Voltage:** 230 VDC Nominal, 300 VDC Max, 120 VDC min
- **DC Mill Motor Frame:** 602, 802 through 622,822
- **Ambient Operating Temperature:** +50°C Maximum to -10°C Minimum
- **High ambient drives available:** +60°C Maximum to -10°C Minimum
- **Diagnostics & Parameter Adjustment** – Data Terminal, Part No. A62499
- **DB Resistor:** required but not included, reuse existing units in good condition



Typical Single-Motor Hoist Control Power Panel with Microprocessor Logic, 5-speed card & IGBT's

Patented Hoist Control

- True series motor hoist circuit
- True shunt motor lowering circuit
- Emergency Brake Contactor
- Upper Limit Switch Coordination
- DB Circuit IGBT Switch + Parallel Contactor

Manufactured by:

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Specifications subject to change without notice.

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