

# High Performance Variable-Speed AC Motors

**Bulletin 1329L AC Motors, .33 to 900 HP**



## Optimized Electrical Designs

Every Bulletin 1329L high performance motor design is optimized for adjustable frequency service — not just a re-rated or oversized standard motor. Rotor slot configuration and stator windings are optimized to provide:

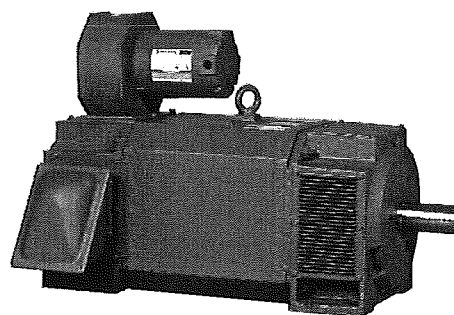
- Reduced KVA/HP for lighter controller loading.
- Lower flux saturation to reduce peak currents and nuisance controller "tripping" induced by peak currents.
- More horsepower per frame size for increased dynamic response — up to three frame diameters smaller than corresponding NEMA frame fixed-speed motors.
- Smoother operation at very low shaft speed.
- Reduced magnetic noise levels due to low flux density designs.

## Premium Insulation System

To help assure superior life in most industrial applications, Bulletin 1329L motors utilize NEMA Class H materials to provide improved mechanical and thermal strength. The insulation system is designed to meet and exceed NEMA standard MG1 Part 31.40.4.2 for resistance to spikes of 1600 volts with a 0.1 microsecond rise time. Furthermore, the insulation system has a minimum CIV (Rockwell Automation test method) rating of 1600 volts at rated operating temperature. All motors include three thermostats as standard (one per phase) for optimum thermal protection.

## Commitment to Quality

The Allen-Bradley Bulletin 1329L high performance motors are manufactured in an ISO9001 certified facility and are available with UL® component recognition and CSA approval.



*When your variable-speed application demands high performance over wide speed ranges, Bulletin 1329L high performance motors offer an exceptional solution. Utilizing state-of-the-art laminated frame technology, 1329L motors deliver high performance benefits:*

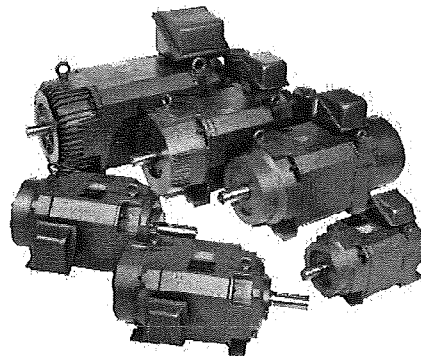
- 100% torque to zero speed on flux vector and field oriented control drives.
- Wide selection of base speeds and modifications available to support your application requirements.
- Control-Matched™ with Allen-Bradley drives.



Bringing Together Leading Brands in Industrial Automation

## Superior Mechanical Features

- **Bulletin 1329L** high performance feet-on-bracket design provides a rigid, vibration-resistant, mechanical assembly with increased bearing support to further improve structural dynamics.
- Laminated frame "monobloc" construction increases power densities (HP/frame size) to allow the motor to fit in a minimal space.
- All motors include as standard a machined mounting surface for quick, easy installation of an optional feedback device.
- Cast iron brackets with concentric bearing and frame fits are machined in a single operation to assure uniform air gap and reduced noise.
- Exclusive PLS® Positive Lubrication System with inner cap and open bearing provides a generous grease supply and extended bearing life.
- Easily modified to splash-proof or totally enclosed separately ventilated.

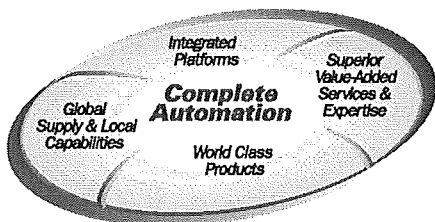


*Bulletin 1329L high performance motors are Control-Matched with Allen-Bradley drives for optimum performance and value.*

## Application Versatility

**Bulletin 1329L** high performance motors have years of successful field operation in high performance applications:

- Low inertia, cut-to-length
- Paper machines
- Printing presses
- Test stands
- Extruders
- Machine tool
- Drilling rigs



## A Complete Automation™ Solution for Variable-Speed Performance

You can depend on Allen-Bradley products and services as your single source for a Complete Automation solution. These products are designed to deliver integrated performance and are backed by comprehensive support services. This total capability from a single source offers you savings and flexibility to ensure optimum value from your investment.

Complete Automation and Control-Matched are trademarks of Rockwell Automation.  
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**For additional information refer to our web site:**  
**[www.controlmatched.com](http://www.controlmatched.com)**

**Reach us now at [www.rockwellautomation.com](http://www.rockwellautomation.com)**

Wherever you need us, Rockwell Automation brings together leading brands in industrial automation including Allen-Bradley controls, Reliance Electric power transmission products, Dodge mechanical power transmission components, and Rockwell Software. Rockwell Automation's unique, flexible approach to helping customers achieve a competitive advantage is supported by thousands of authorized partners, distributors and system integrators around the world.

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