
Dynamatic®
EC 2000

Application Engineering
Quality Products
Total Solution

New dimensions in drive control with the Dynamatic® Digital EC 2000

... Flexible, precise control

The new Dynamatic® EC 2000 Controller lets you control the speed of your Eddy Current Drive within 0.1 percent from no load to full load. You also get 250 percent of rated torque, which is great for starting and momentary overload conditions. Compared to other drives offering only 110 percent to 150 percent starting torque, this means you may be able to use a smaller, more economical drive.

...100 percent testing

To assure you of quality, we 100 percent load test every controller and drive before they leave the factory, so you can count on reliable startup and consistent performance.

...Easy installation

EC 2000 controllers are available in 115 volt, single phase, 50/60 Hz input power to simplify worldwide applications.

They use only 1 percent of line power, so you can place the drives up to 500 feet away.

...PLC compatibility

The EC 2000 is interchangeable with a wide range of drive horsepower's to reduce your inventory and save money.

Interfacing this new controller to existing PLC systems is a snap. In the future, the EC 2000 will be able to interface directly with computer controlled systems.

... Standard functions

1. **Instrument signal follower** permitting control from all common process controller inputs.

2. **Open collector outputs** permitting interface of control alarm and annunciation with real world devices.

3. **Up to Four Preset Speeds** can be selected from the softouch keypad or terminal strip permitting operation of process at predetermined optimum set points.

4. **Auto restart after power outage** providing true "two wire" control when used with applications requiring unattended restart.

5. **PLC Run/Stop** controller functions available.

6. **Automatic and Manual** control functions provided through terminal strip connection or softouch keypad permitting either process control or normal operation for startup and adjustment.

7. **Local and Remote** control functions are provided through softouch keypad allowing control from multiple operator devices.

8. **Programmable Jog** speed can be actuated from terminal strip or softouch keypad offering greater application flexibility.

9. **Analog output signal** can be programmed to provide signal proportional to critical control parameters such as speed, current or voltage.

10. **Linear acceleration and deceleration** function provided to permit soft start and stop process control.

11. **Jump speeds** can be programmed to prevent the drive from operating at critical mechanical resonance speeds.

12. The controller can be set to operate either in the **speed or torque mode.** In **speed mode,** the controller operates with closed loop speed control from tachometer feedback providing precise control of process speed. In **torque mode,** the controller operates closing only the current loop and regulates torque output of the drive for applications where torque is the regulated variable rather than speed.

13. New high power EC-2000 for large Eddy Current drive applications. High power control at lower cost than competing technologies.

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