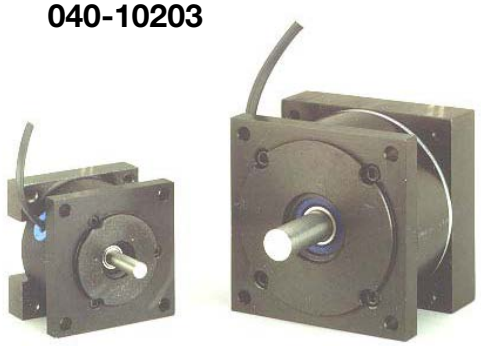
MPC Series

Instruction Manual

P-8155-IDI
040-10203



The MPC is a power-off brake module with an output shaft. It is designed for use as a coupler between C-Face motor and a C-Face gear reducer. Never mount a pulley or sprocket onto the brake output shaft as the MPC will not accomodate any type of overhung load applications.

Mounting

Without using excessive force, position the brake onto the motor. If resistance is encountered, the clamp collar may need to be loosened slightly to provide clearance for the motor shaft. The clamp collar should be positioned such that access to the clamp collar screw is obtained through the small hole in the mounting plate. To assure that the brake is fully seated against the motor end bell, tighten snuggly the four mounting screws. Then loosen 4 mounting screws and immediately torque the clamp collar screw per chart 1. Then fully tighten the 4 mounting screws per chart 2. This procedure ensures that the brake is properly piloted on the motor shaft. Wire the two leads to the power supply. Inertia Dynamics power supplies are available with a wiring diagram showing the proper electrical connections.

Note: Do not hi-pot brakes with AC operating voltages as that will damage the internal rectifier.

Replacement Parts for MPC Brakes

Adjustments are made at the factory to ensure proper gaps, etc. Since virtually all components will wear during normal operation, it is suggested that when replacement is necessary, the entire unit be replaced.

Chart 1 Clamp collar screw torque

17 Frame - any input size	15 in-lbs. (1.70 Nm)
23 Frame - 1/4 inch input	28 in-lbs.
23 Frame - 3/8 & 1/2 inch input	49 in-lbs.
34 Frame - 3/8 & 1/2 inch input	170 in-lbs.
34 Frame - 14mm input	9.5 Nm
42 Frame - any input size	170 in-lbs.

Chart 2 Mounting screw torque in aluminum

All 17 Frame's	4.2 in-lbs. (0.5 Nm) maximum
All 23 & 34 Frame's	13.8 in-lbs. (1.6 Nm) maximum
All 42 Frame's	80 in-lbs. (9.0 Nm) maximum

⚠CAUTION Do not apply any load to output shaft before mounting brake to motor i.e. pressing drive media to output shaft. Damage can occur to shaft retaining ring and or bearing.

⚠WARNING Because of the possible danger to person(s) or property from accidents, which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Inertia Dynamics nor are the responsibility of Inertia Dynamics.

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