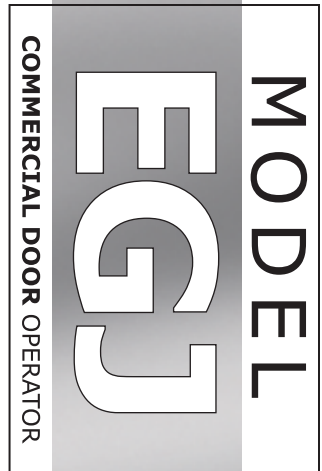


Damp Environment Operator Specifications



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Damp environment operator for use on rolling or sectional doors where direct spray is not present.

1.2 RELATED SECTIONS

- A. Section 06100 – Rough Carpentry: Installation and requirements for blocking and nailers.
- B. Section 16050 – Basic Electrical Materials and Methods: Installation and requirements for electrical connections.

1.3 REFERENCES

- A. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation Methods.
 - 4. Cleaning Methods.
- C. Shop Drawings: Submit Shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Schedule delivery of door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 WARRANTY

- A. Manufacturer's standard limited lifetime warranty against material and manufacturing defects.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc.; 845 Larch Avenue, Elmhurst, IL 60126-1196. ASD. Tel: (800) 282-6225. Fax: (630) 516-8412. www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 GEARHEAD JACKSHAFT DAMP ENVIRONMENT OPERATOR

- A. Gearhead Jackshaft Operator: Continuous-duty high-starting torque motor with overload protection; Model EGJ; Chamberlain, Elmhurst, IL.
 - 1. Electric Operator: Model EGJ Gearhead jackshaft damp environment assembly, with electric motor and factory-prewired motor controls, sealed gear reduction, adjustable friction clutch, dynamic brake, floor-level disconnect, 3-button OPEN/CLOSE/STOP control station, conduit and wiring from control to motor and accessories required for proper operation.
 - a. Primary Speed Reduction Device: Sealed gear reduction with internal clutch system, high-cycle ball bearings and 45:1 speed reduction.
 - b. Limit Switches: Fully adjustable, cam-type switch mechanism synchronizing operator with door. Motor shall be removable without affecting limit switch settings.

- c. Electric Motor: TEFC high-starting torque, continuous-duty, industrial-type with instant reverse and overload protection.

1) Motor Specification (choose one):

- (a) 115V-60Hz-1Phase; 1/2 HP
- (b) 230V-60Hz-1 Phase; 1/2 HP
- (c) 208/230V-60Hz-3 Phase; 1/2 HP
- (d) 460V-60Hz-3 Phase; 1/2 HP
- (e) 575V-60Hz-3 Phase; 1/2 HP

- d. Motor Control and Enclosure: Contactor-style (Mechanical) Motor Starter, Control, and Enclosure: Motor starter shall be an across-the-line type, mechanically interlocked, with size "O" contactor motor switching and a 24V NEC Class 2 control circuit. Motor starting device shall be enclosed in a NEMA 4 enclosure and integral with the operator.
- e. 3-Button Control Station: 3-button station providing OPEN/CLOSE/STOP shall be NEMA 4.
 - 2. Door Drive: Operator shall be equipped with a floor level disconnect for manual operation and a dynamic brake to stop motor and hold the door in any position. Operator shall be mounted directly onto the 1" torsion shaft of sectional doors, providing an approximate door speed of 12" per second.
 - 3. Optional Operator Accessories:
 - a. Self-Monitoring Safety Operation Application: CPS-N4 Industrial Duty, NEMA 4 Rated Self-Monitoring Sensor.
 - b. Operator Cover: To protect operator where direct spray is present.
 - c. Reduction Shaft: Optional reduction shaft required for use on rolling doors or sectional doors to provide and approximate door speed of 8-9" per second.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the Methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

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