



PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Provide electric door operator(s) assembly of size and capacity recommended for door(s) as provided by door manufacturer, with electric motor and factory pre-wired motor controls, starter, gear-reduction unit, drum brake, clutch, control devices, and accessories required for proper operation.

1.02 RELATED WORK

- A. Opening preparation, miscellaneous or structural metal work, access, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

1.03 QUALITY ASSURANCE

- A. In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator shall be manufactured by a single-source producer of door systems, such as by Overhead Door Corporation.

PART 2 - PRODUCT

2.01 GENERAL

- A. The electric door operator shall be the heavy-duty Model (SDB LD) (SDB HD) door control system for standard-lift, high-lift, and full-vertical sectional doors as manufactured by Overhead Door Corporation and suitable for the type and size of door specified.

2.02 MOTOR

- A. Motor shall be (1 horsepower) (2 horsepower (HD version only)) continuous-duty, with instant reverse and automatic reset thermal overload. Motor shall be UL listed. Motor frame shall comply with NEMA 56, open drip-proof construction.

2.03 REDUCTION

- A. Primary reduction is worm gear in oil bath with a reduction ratio of 40:1. Secondary reduction is by chain and sprocket. All moving shafts shall incorporate ball bearings.

2.04 DUTY CYCLE

- A. Duty cycle shall accommodate heavy usage, up to 60 cycles per hour under a large constant load.

2.05 CLUTCH

- A. Clutch shall be adjustable torque-limiter type.

2.06 BRAKE

- A. Brake shall be solenoid actuated, drum and shoe type.

2.07 LIMIT SYSTEM

- A. Limit system shall be rotary type with vernier adjustment, synchronized with door during release operation.

2.08 CONTROL SYSTEM

- A. Control system shall use a heavy-duty reversing contactor, electrically and mechanically interlocked with 24 VAC three-button open/close/stop control that allows for constant or momentary contact door open and door close functions. System shall also accommodate connection of a sensing edge and/or photocell device; and connection of single button control stations; and connection of three-wire radio controls.



2.09 MOUNTING

- A. Mounting shall be by jackshaft that is (side-mounted) (center-mounted) with (chain/sprocket) (direct shaft-to-shaft) coupling to door.

2.10 RELEASE

- A. Release shall be a 2 cable toggle type mechanism with an integrated interlock switch.

2.11 HOIST

- A. Chain hoist shall consist of chain pocket wheel, chain guard and smooth hand chain.

2.12 ENTRAPMENT PROTECTION

- A. Overhead Door Corporation recommends the installation of an external reversing device for all electrically operated commercial doors. If a sensing edge or some other reversing device is not installed, a constant contact control switch must be used to close the door. We recommend a Fail Safe electric sensing edge that will not allow the door to close if the sensing edge is damaged or not working properly.
- B. The control system shall have provisions to connect such entrapment protection devices (electric sensing edge) (pneumatic sensing edge) (photoelectric sensor) and to provide constant contact control operation in lieu of such devices.

2.13 ACCESSORIES (OPTIONAL)

- A. Control Accessories: In (lieu of) (addition to) (Interior pushbutton control stations) (Exterior pushbutton control stations) (Interior key switches) (Exterior key switches) (Keyless entry systems) (Radio control systems) (Photo-electric controls) (Timer to close controls) (Vehicle detector controls) (Warning light controls).

PART 3 - EXECUTION

The Model SDB shall be installed in accordance with Overhead Door Corporation instructions and standards. Installation will be by authorized Overhead Door Corporation representatives.

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Note to specifier:

This specification is a suggested guide.

Available options are shown in parentheses.