The Genuine. The Original.

Model RSX™ Specifications for use on Rolling Doors

PART 1 – GENERAL

1.01 WORK INCLUDED

A. Provide electric door operator(s) of size and capacity recommended for door(s) as provided by door manufacturer with electric motor and factory pre-wired motor controls, starter, reduction unit, band brake (option on trolley units for without brake model), 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 standard-duty Model RSX™ door control system for a (rolling steel door) and /or (rolling steel grille) as manufactured by Overhead Door Corporation and suitable for the type and size of door specified.

B. The electric operator shall be (single phase) (three phase) with Voltamatic™ - the ability to adjust to the correct voltage of (115/208/230 for single phase) (208/230/460 for three phase) without removal or addition of any parts. (The electric operator shall be 575vac three phase).

C. All components to have corrosion resistant coatings.

D. The operator shall be suited for NEMA ICS 6 Type 1 (NEMA ICS 6 Type 4) (NEMA ICS 6 Type 4X) environment.

2.02 MOTOR

A. Motor shall be:
   a. (1/2 horsepower single phase or three phase with automatic thermal reset overload)
   b. (3/4 horsepower or 1 horsepower single phase with manual reset thermal overload)
   c. (3/4 horsepower or 1 horsepower three phase with automatic thermal reset overload)

Motor frame shall comply with NEMA (48 for 1/2hp single phase) (56 for 1/2 three phase, ¾ & 1hp all phases), (open drip-proof construction) (Totally Enclosed Non Ventilated – TENV construction) (Totally Enclosed Fan Cooled – TEFC construction).

2.03 REDUCTION

A. Primary reduction is Super Belt™, an auto tensioning poly-V flex belt that does not require adjustment. Secondary reduction is by chain and sprocket.

2.04 DUTY CYCLE

A. Duty cycle shall accommodate standard duty usage up to 60 cycles per hour during peak usage periods.

2.05 BRAKE (OPTIONAL WITHOUT ON CERTAIN MODELS)

A. Brake shall be a DC Disc type with selectable Progressive Braking for smooth stopping.

2.06 CLUTCH

A. Clutch shall be adjustable friction disc type standard on all versions.

2.07 LIMIT SYSTEM

A. The Limit Lock™ limit system shall be magnetic type providing absolute positioning with push to set and remote setting capabilities. The Limit System shall remain synchronized with the door during manual operation and supply power interruptions.

2.07 CONTROL SYSTEM

A. The control system shall be microprocessor based with relay motor controls on a single board. This system will incorporate Einstein Logic™, with a 16 character Liquid Crystal Display (LCD) to display the system status. This system shall be capable of monitoring and reporting on a variety of operating conditions, including: Current operating status, Current command status, Motor movement status, Current error status (if applicable), Hoist Interlock status (if applicable), External Interlock status, 24VDC status.

B. The control system shall feature a delay-on-reverse operating protocol.

C. The system shall include maximum run timers in both directions of travel that limit motor run time in the event the clutch slips or some other problem occurs.

D. It shall include provisions for the connection of a 2-wire monitored photocell system as well as standard 2-wire sensing edges, photocells or other entrapment protection devices.

E. The system shall include provisions for connection of single and/or 3-button control stations,

F. The system shall include provisions for connection of an external 3-wire radio controls and related control devices.

G. The control system shall include on board open, close and stop control keys for local operation.

H. The control system will include a CodeDodger® radio receiver that is dual frequency cycling at 315Mhz and 390Mhz capable of storing 250 single button and/or 250 Open-Close-Stop transmitters with the ability to add and/or delete transmitters individually, identify and store activating transmitter ID(s).

2.09 MOUNTING

A. Mounting for Rolling Steel doors shall be (front of hood) (top of hood) (wall- mount) and chain/sprocket coupling to door.

B. Mounting for Hoist models shall be (Left Hand) (Right Hand)

2.10 RELEASE

A. Release shall be a pull and hold type mechanism with single cable operation and an integrated interlock switch on hoist units.

2.11 HOIST (OPTIONAL)

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

2.12 SECONDARY REVERSAL

A. Rolling Steel versions shall be designed to accept an optional external reversing device.

NOT FOR RESIDENTIAL USE.

2.13 OPTIONAL CONTROL ACCESSORIES

A. Control accessories: In (lieu of) (addition to) (interior pushbutton control station) (exterior pushbutton control station) (interior key switches) (exterior key switches) (radio control) (OHD monitored photo electric eyes) (commercial photo electric eyes) (floor loops) (motion sensors

B. Operator Accessories shall be Timer to Close and will provide auxiliary control inputs, auxiliary safety inputs, auxiliary timer hold input, and an automatic door closing feature with a user selectable time delay. Safety inputs are to be enabled or disabled using the on board keypad.

C. Operator Accessories shall be Auxiliary Output Module and will provide several auxiliary sets of dry contacts that are microprocessor controlled. Outputs can be configured using the on board keypad.

PART 3 - EXECUTION

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

Note to specifier:
This specification is a suggested guide.
Available options are shown in parentheses.