PRO-TB SUGGESTED ARCHITECT SPECIFICATIONS

Model:
The electric operator will be a Nice Model PRO-TB as manufactured by Nice Group Canada Inc. Related work – Door preparation, miscellaneous or structural metal work, field electrical wiring, wire, conduit, fuses, and disconnect switches are in the scope of work of other division trades.

Products:
Supply Nice Model Pro-TB, commercial/industrial duty, belt drive trolley operator(s) with solenoid brake available in 1/3, 1/2, 3/4 and 1 HP single phase or three phase.

General:
Provide CSA listed UL 325 2010 tested and approved electric door operator assembly of size and capacity recommended by door manufacturer. External entrapment device monitoring built in to control circuit. Completed with electric motor and factory pre-wired motor controls. Conduit and wiring to motor and accessories required for proper operation by others.

Electric Motor:
Motor shall be high starting torque, 1725 RPM continuous-duty, instant reversible, industrial-type, capacitor start (1-Phase) protected by automatic thermal overload device (3-phase) or an external overload device (1-phase).

Motor Starter, Controls, Enclosures:
Motor control circuit shall incorporate the SMART 10.0 control logic board or an across the line magnetic reversing starter electrically and mechanically interlocked, motor controls shall be in a Nema-1 enclosure. Controls and control enclosure shall conform to ANSI/NEMA ICS 1, ICS 2, and ICS 6. A Nema-1 3 button control station OPEN/CLOSE/STOP and Nice compatible monitored photocells shall be provided as standard equipment.

Frame and Reduction:
Primary reduction shall be heavy-duty 5L V-belt, secondary reduction #41 roller chain and sprockets. Trolley rail drive chain shall be #410 for 1/3 and 1/2 HP, and #41 on 3/4 and 1 HP. All shafts shall be coated in black oxide for maximum corrosion resistance, permanently lubricated and sealed ball bearings on all drive shafts. All driven sprockets drilled, pinned and set with locktite. Operator shall be capable of driving door at a speed of 12" per second.

Adjustable Clutch:
Operator shall be equipped with an adjustable friction clutch to prevent door and operator damage.

Emergency Disconnect:
Equipped with spring loaded emergency quick release disconnect for manual door operation.

Solenoid:
Electrically actuated drum type solenoid brake to stop the door and hold the door in position.

Limit Switches:
Fully adjustable, rotary driven linear type limit switch mechanism shall synchronize the operator with the door. Low friction oil impregnated powder metal limit cams fitted on threaded steel shaft, rotating on oilite self-lubricating bronze bushings. The motor shall be removable without affecting the limit switch settings.

Trolley Assembly:
2"x2" 12 gauge galvanized right angle steel rails with quiet, long lasting cast aluminum carriage with black oxide coated steel rail spacers.

Execution:
Install the motor operator in accordance with Nice Group Canada Inc. instruction and standards and in compliance with applicable federal, state or local regulations.

Warranty:
Nice Group Canada Inc. warrants that its operators shall be free of any defects in materials and workmanship for a period of 2 years.