PRO-APTC SUGGESTED ARCHITECT SPECIFICATIONS

Model:
The electrical operator will be a Nice Model PRO-APTC 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-APTC, low clearance apartment design commercial/industrial duty worm gear drive trolley operator(s) available in 1/2 and 3/4 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, full function feature to include timer to close and time delay on reverse with optional traffic light feature. Complete with electric motor and factory pre-wired controls. Conduit and wiring to motor and accessories required for proper operation by others.

Electric Motor:
Motor shall be high torque, 1625 RPM continuous duty, instant reversing, industrial type, capacitor start (1-phase), protected by automatic thermal overload device (3-phase) or an external reset overload device (1-phase).

Control Circuit:
24V NEC Class 2 Circuit with a 40VA transformer, 24V fused control circuit to protect against short circuit.

Motor Starter, Controls, Enclosure:
Motor control circuit shall incorporate full function featured Nice SMART 10.0 control logic board or an across the line magnetic reversing starter electrically and mechanically interlocked, operators are factory pre-wired for timer to close, time delay on reverse and non-resettable cycle counter. Motor controls shall be in a Nema-1 enclosure. Controls and control enclosure shall conform to ANSI/NEMA ICS 1, ICS 2 and ICS6. 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 speed reduction will be heavy duty worm gear drive. Incorporates 3/4" steel flanged precision bearings. Heavy duty UHMW front idler pulley, trolley rail drive chain shall be #41 roller chain. Operator shall be capable of driving door at a speed of 7" per second.

Emergency Disconnect:
Equipped with an emergency dual-handle auto disconnect and reconnect trolley carriage for manual operation.

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, by direct coupling to gearbox. The motor shall be removable without affecting the limit switch settings.

Trolley Assembly:
Heavy duty C-channel track with UHMW trolley rollers and dampeners for smooth and quiet operation.

Execution:
Install the motor operator in accordance with Nice Group Canada Inc. instructions and standards and in compliance with applicable federal, state or local regulations. Complete motor unit supplied fully assembled.

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.