



PRO-GT

Industrial Continuous Duty Worm Gear Trolley Operator with Brake

Suggested Architect Specifications

Model:

The electric operator will be a **Micanan Model PRO-GT** as manufactured by Micanan Systems 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.

Product:

Supply Micanan Model PRO-GT industrial duty worm gear trolley operator(s) available in 1/2, 3/4, 1, and 1.5 HP single phase or three phase.

General:

Provide CSA listed, UL 325 2010 tested & approved electric door operator assembly of size and capacity recommended by door manufacturer. External entrapment device monitoring built in to control circuit. Complete with electric motor and factory pre-wired motor controls, worm-gear reduction unit, solenoid operated brake. Conduit and wiring to motor and accessories required for proper operation by others.

Electric Motor:

1725 RPM continuous duty, instant reversible, industrial type, capacitor start (1-phase), external thermal overload protection device (3-phase) or an external reset overload device (1-phase).

Control Circuit

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

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 Micanan compatible monitored photocells shall be provided as standard equipment.

Frame and Reduction:

Primary speed reduction shall be by worm gear in oil bath 20:1 ratio gear reducer, secondary reduction #41 roller chain and sprockets, heavy 10 gauge steel trolley frame, trolley rail drive chain shall be #41 roller chain. All shafts shall be coated in black oxide for maximum corrosion resistance, permanently lubricated and sealed ball bearings on all drive shafts. All drive sprockets drilled, pinned and set with locktite. Operator shall be capable of driving door at a speed of 10" per second.

Adjustable Clutch:

Operator shall be equipped with an adjustable in-line motor clutch to prevent door and operator damage.

Emergency Disconnect:

Equipped with spring loaded emergency quick release disconnect for manual door 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, rotating on oilite self-lubricating bronze bushings. The motor shall be removable without affecting the limit switch settings.

Trolley Assembly:

2"x 2" 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 Micanan Systems instruction and standards and in compliance with applicable federal, state or local regulations.

Warranty:

Micanan Systems warrants that its operators shall be free of any defect in materials and workmanship for a period of 2 years.

