

## **FFI Actuator & Control Systems**

for windows and skylights

# EM Tandem SmartMotion DC chain actuators



sash connector/ hinge bracket



Functional Fenestration Inc (FFI) is an expert and leader in the American motorized actuator market, with a broad range of motors for windows, vents, and skylights. FFI has been providing motorized operators for natural ventilation since 1987, for institutional, commercial and residential applications.

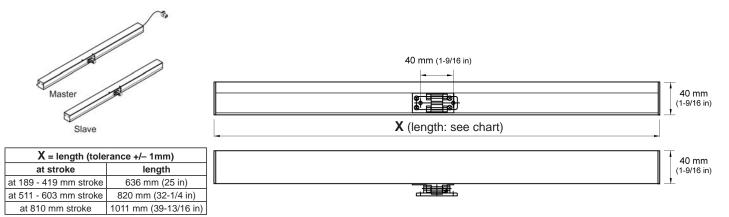
### Benefits of motorized actuators

- Automated operation of multiple awning windows, hopper windows, casement windows, curtain wall vents, and skylights.
- Ideal for smart buildings; integrate with building and home automation systems.
- EM actuators are certified for Smoke and Heat Extraction (SHE).
- Natural ventilation enables lower energy consumption, lets in fresh air and daylight, enables LEED credit.
- Low voltage DC motors are energy efficient.

#### Features

• Tandem is 2 actuators (master and slave) connected by a cable, designed for wide vents.

- The actuators can be mounted at any distance apart from each other on the vent.
- EM series has a slim casing and low-noise operation.
- Push/Pull Force up to 300 N (68 lb) for each actuator to operate 189mm 603mm chain versions.
- Opening distance ranges from 189 mm to 810 mm approx., according to version.
- Multiple windows may be linked for simultaneous operation.
- Actuators have stainless steel chains for rigidity and durability.
- Tight vent closure using electronic power cut-off.
- UL Recognized.
- Sash connectors/hinge brackets and all mounting brackets for EM are available in EM Bracket kits (sold separately) rather than included with the actuator; see EM Brackets & Accessories DataSheet.
- Actuators are available in standard grey, white, or black color.
- UL cable 1 meter included, black color.
- Tested to 10,000 cycles.
- 2-year manufacturer's warranty; requires use according to Installation Guide recommendations.

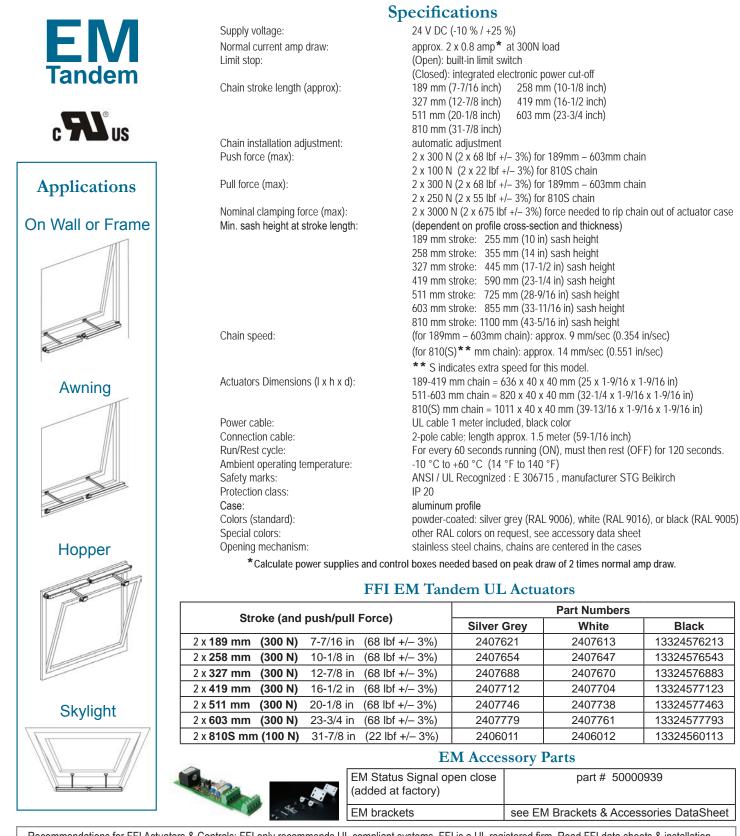




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Recommendations for FFI Actuators & Controls: FFI only recommends UL compliant systems. FFI is a UL registered firm. Read FFI data sheets & installation guides before specifying project details. Project-specific needs vary depending on the number of actuators, electrical layouts, building management systems, distance between power supplies & actuators, and other details. Project specifications to comply with electric & building codes—for wire gauge, wire connections and run distance, conduits, junction boxes—must be arranged by the project electrical contractors. Distribute this guide to all project parties, including electrical contractors, architects, and building management personnel.

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