



### Synchro-Quasar Actuator Features

- Synchro-Quasar actuators are for wide awning windows, hoppers, curtain wall vents and skylights.
- Synchro-Quasar is for wide vents that require 2 to 4 motors, providing multiple sash connection points and synchronized operation. Available in DC version only.
- Multiple vents can be wired in parallel, and can be operated by building automation systems.
- 15” chain operator (20” special order); self-adjusting for proper closure at installation.
- Operator has stainless steel, double-link chain for rigidity and durability.
- Examples of 66 lbs operating force: a 48” tall/844 lb. vent or a 264 lb. skylight (with 15” chain).
- Low-profile, attractive aluminum case; available in black, white or gray paint.
- Minimum sash height is 12” for 15” chain (16” for 20” chain). Standard pivot brackets included.
- Synchro-Quasar F-Signal (DC) has opening and closing feedback signal, ask for data sheet.
- Two-year UCS manufacturer’s warranty. Requires reading FFI Install Guide before purchase, and confirmation of project and installation specs by licensed electrical contractor.
- Functional Fenestration Inc (FFI) has a wide range of actuators for institutional, commercial and residential applications. FFI has been providing motorized operators for windows and skylights since 1987, and today is an expert and leader in actuators for automation, natural ventilation, and smoke evacuation.

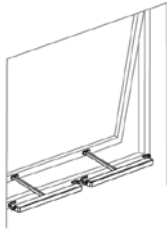
### Synchro-Quasar Specifications

	Synchro-Quasar DC UL
supply voltage	24 Vdc ± 10% low voltage
normal current amp draw*	0.9 amps average*
power cable (3 m)	white color; 2 conductors (± polarity inversion)
chain stroke	380 mm (15 inches) or 500 mm (20 inches) opening stroke
chain speed	15 mm (0.6 inches) per second
limit stop	electronic limit switch
safety stop	electronic overload switch
typical switch	DPDT maintained contact (6 leads)
safety marks	ANSI/UL Recognized; CE
UL projects	UL Recognized
push/pull force	66 lbs (200 N)
environment	14 to 140 degrees F (-10 to 60 degrees C); maximum relative humidity 60%
control options	Wall switch or CRM keypad; add remote control and weather sensors (rain, wind, thermostat) with CRM

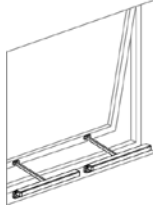
\* Start-up current for one Quasar DC is 3.5 amps for one actuator. Calculate power supplies and relay boxes needed based on peak draw of 2 times normal amp draw, or 2 – 3.5 amps per actuator.

### Application Options

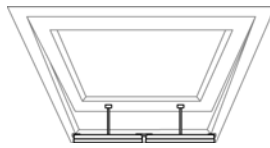
On Wall or Frame



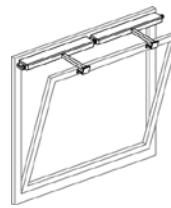
Awning



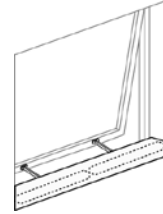
Skylight



Hopper



Concealed in Frame or Curtainwall



- Optional brackets may be required for hopper and wall mounting.
- Read FFI Installation & Maintenance Guide before specifying project details.
- CAD files available on request from FFI.



installs on sash, sill or wall

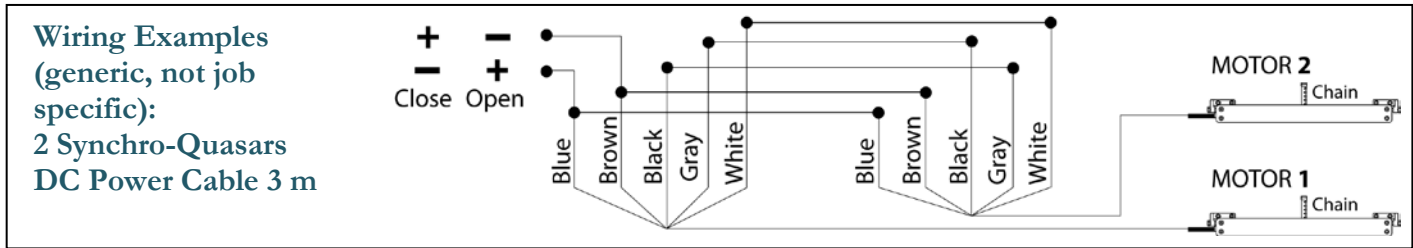


chain operator attached to frame



standard pivot brackets (included)

<p><b>Case Dimensions</b>          Height: 1 1/4" (32mm)          Depth: 1 7/8" (47.5mm)          Length: 26 5/8" (676mm)</p>	<p><b>Sash Bracket Dimensions</b></p>
---	---------------------------------------



### Synchro-Quasar Actuators from FFI

If in-stock, items ship within 24-48 hours

paint color	Synchro-Quasar DC UL 15"/380mm	Synchro-Quasar DC UL 20"/500mm
gray RAL 9006	41172N	41175V
black RAL 9005	41173R	41176X
white RAL 9010	41174T	41177Z