



UL-Recognized models available

### Quasar-L Actuator Features

- Quasar-L actuators are for large awning windows, hoppers, curtain wall vents and skylights.
- Quasar-L is a version of the Quasar with longer chain and a longer case.
- Multiple vents can be wired in parallel, and can be operated by building automation systems.
- Chain operator is self-adjusting for proper closure at installation.
- Operator has stainless steel, double-link chain for rigidity and durability.
- 30" and 40" strokes are only suitable for hopper windows or side-hinged windows that open inward.
- One 24"/600mm chain operator opens a 48" tall/264 lb. or an 82" tall/451 lb. window or vent.
- One 30"/750mm chain operator opens a 48" tall/134 lb. or an 82" tall/229 lb. window or vent.
- One 40"/1000mm chain operator opens a 48" tall/54 lb. or an 82" tall/92 lb. hopper window or vent.
- Low-profile, attractive aluminum case; available in silver anodized, black paint, or white paint.
- Minimum sash height is 24" for 24" chain, 30" for 30" chain, and 40" for 40" chain.
- Quasar-L 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.

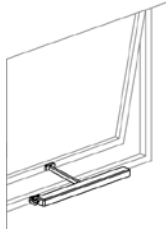
### Quasar-L Actuator Specifications

	Quasar-L AC	Quasar-L DC UL
supply voltage	100 Vac – 240 Vac, 60 Hz line current	24 Vdc $\pm$ 10% low voltage
chain stroke	600mm (24"), 750mm (30"), 1000mm (40")	600mm (24"), 750mm (30"), 1000mm (40")
push/pull force	66 lbs (24"), 33/66 lbs (30"), or 22/66 lbs (40")	66 lbs (300N), 33/66 lbs, 22/66 lbs
normal current amp draw*	0.48 amps – 0.2 amps	0.9 amps average*
power cable (1.5 m, white)	4 conductors (2x load, common, ground)	2 conductors ( $\pm$ polarity inversion)
chain speed	15 mm (0.6 inches) per second	15 mm (0.6 inches) per second
limit stop	electronic limit switch	electronic limit switch
safety stop	electronic overload switch	electronic overload switch
typical switch	SPDT momentary contact (3 leads + ground)	DPDT maintained contact (6 leads)
safety marks	ANSI/UL pending; CE mark	ANSI/UL Recognized; CE
UL projects	DC models are UL Recognized	
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	

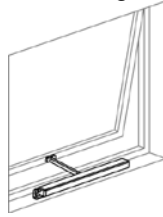
\* Quasar DC start up current is approximately 3.5 amps for one actuator. Calculate power supplies and relay boxes needed based on peak draw of 2 times normal amp draw, or 2 – 3.5 amps per actuator.

## Application Options

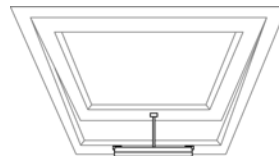
On Wall or Frame



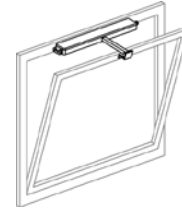
Awning



Skylight



Hopper



- 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

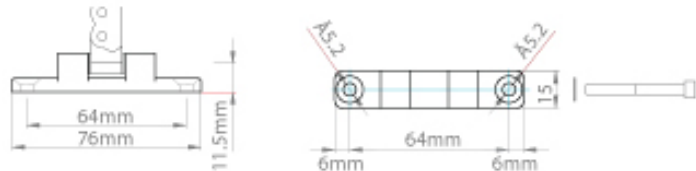


Standard-L pivot brackets (included)

### Case Dimensions

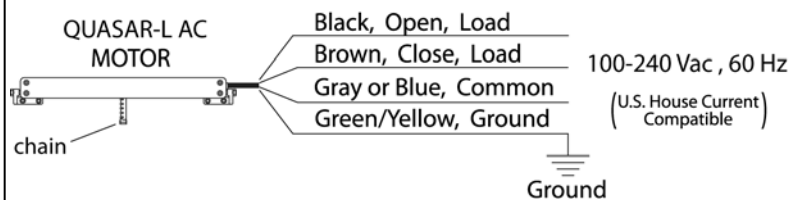
Height: 1 7/16" (37mm)  
 Depth: 2 11/16" (69mm)  
 Length (24" stroke model): 34 1/2" (876mm)  
 Length (30" stroke model): 37 7/16" (951mm)  
 Length (40" stroke model): 42 3/8" (1076mm)

### Sash Bracket Dimensions

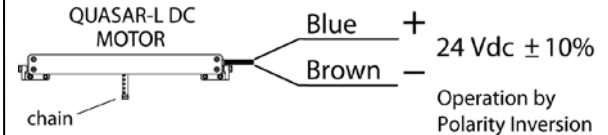


### Wiring Example (generic; not project-specific):

#### AC Power Cable 1.5 meter (59")



#### DC Power Cable 1.5 m (59")



**Quasar-L Actuators from FFI** - if in-stock, items ship within 24-48 hours

color	AC Actuators			DC UL Actuators		
	24" chain	30" chain	40" chain	24" chain	30" chain	40" chain
silver anodized	41052C	41055J	41058R	41163M	41166U	41169A
black RAL 9005 paint	41053E	41056L	41059T	41164P	41167W	41170J
white RAL 9010 paint	41054G	41057N	41060B	41165S	41168Y	41171L