

 **24 HR** **NEXT DAY DESPATCH**
 **UK IMPORTER**
100 SERIES COMPATIBLE
IP20 RATED



 **TYPE** Chain

 **VOLTAGE** 230V

 **THRUST** Up to 180N/18 kg

 **STROKE** 250mm or 380mm **ADJUSTABLE**

DO NOT USE FOR SMOKE VENTILATION

If you do require smoke control products or advice – please call us

ABOUT THIS ACTUATOR

The Sintesi 230V electric actuator, with reinforced double-sprocket chain housed inside the actuator body allows the selection of a 250mm or 380mm stroke. An exclusive removable plug allows quick and easy connection. Ideal for the installation and testing of multiple units.

PRODUCT HIGHLIGHTS

- ✓ Very high speed
- ✓ Noiseless operation
- ✓ Three dovetail slides allowing multiple fitting options
- ✓ Removable plug for electrical connection/testing
- ✓ Quick release system for window cleaning
- ✓ CE marked device

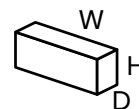
SUITABLE FOR...



COLOUR OPTIONS

-  Anodized Silver
-  White
-  Anodized Brown
-  Bespoke colours on request

ACTUATOR DIMENSIONS



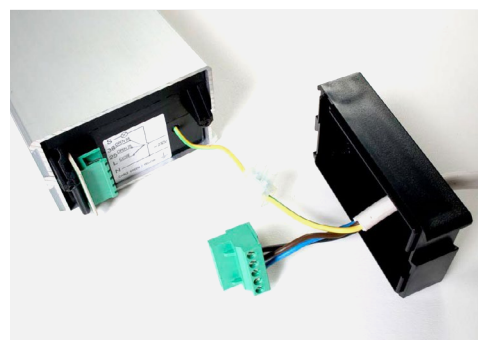
WIDTH: 284mm
HEIGHT: 50mm
DEPTH: 83mm

TECHNICAL DATA >>>

PRODUCT CODES >>>

TECHNICAL DATA

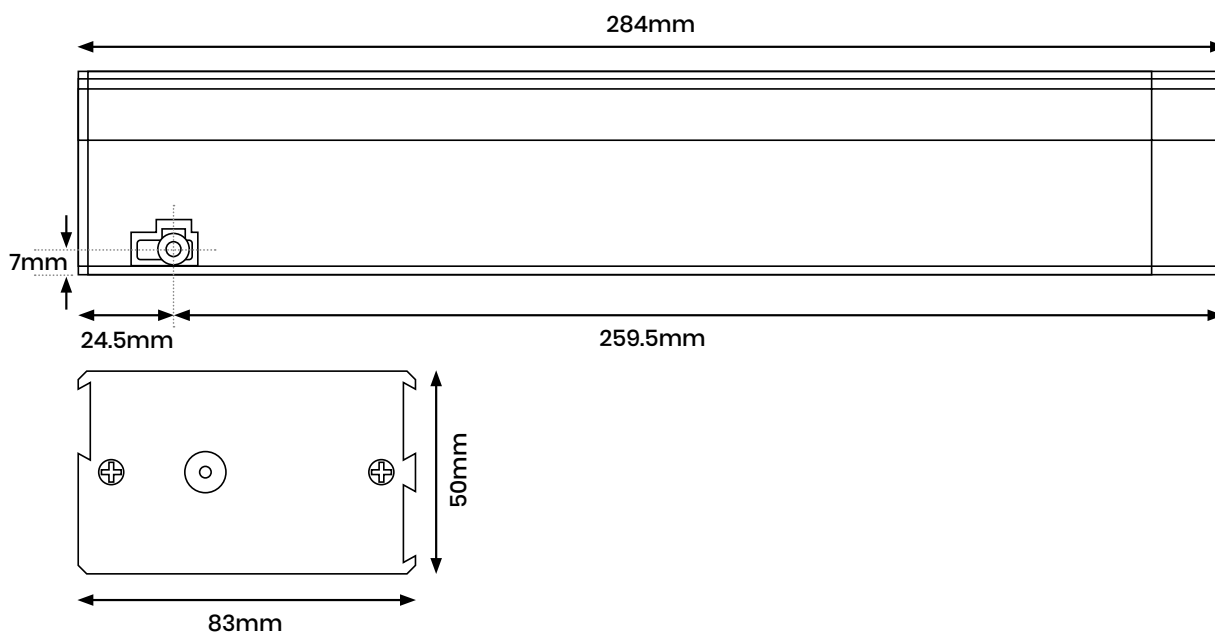
	UCS Sintesi
Voltage Supply	230V
Thrust Force	180N (250mm) / 90N (380mm)
Traction Force	300N
Stroke Adjustment	250mm or 380mm (bottom hung windows only)
Minimum Window Width	330mm
Maximum Window Width	1300mm (use an actuator with two pushpoints if wider)
Absorbed Current	0.65 amps
Power	150 watts
Time Rating	20%
Limit Stop	Micro Switches
Safety Stop	Thermic
Wiring	3 Core + Earth
Speed	~ 30mm/s
Double Insulated	No
IP Protection Class	IP20
Feedback Signal Option	Close
Parallel Connection Option	Yes
Weight	1.5 kg
Cable Length (standard)	1.5m



WHAT'S IN THE BOX?

- ✓ UCS Sintesi Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Sliding Fixing Bracket (plastic)
- ✓ Installation and User Guide
- ✓ Safety Plate

DIMENSIONS



PRODUCT CODES >>>

BRACKET & ACCESSORY CODES



Plastic Sliding Fixing Bracket (included)
AXUC-SIN-BSLI-MI02



Aluminium Dovetail Pivoting Bracket
AXUC-SIN-BPIV-MI01



Aluminium Sliding Bracket
AXUC-SIN-BSLI-MI01



Aluminium Sliding Bracket
AXUC-SIN-BSLI-MI01

58mm Extension Pin
AXUC-SIN-EXTP-58MM

40mm Extension Pin
AXUC-SIN-EXTP-40MM

Locking Pin
AXUC-SIN-LPIN-0001

ACTUATOR CODES

Sintesi 230V

Silver	ACUC-SIN-230V-SI01
White	ACUC-SIN-230V-WH01
Dark Brown	ACUC-SIN-230V-DA01
Mill	ACUC-SIN-230V-MI01

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



VENTEC DS
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE

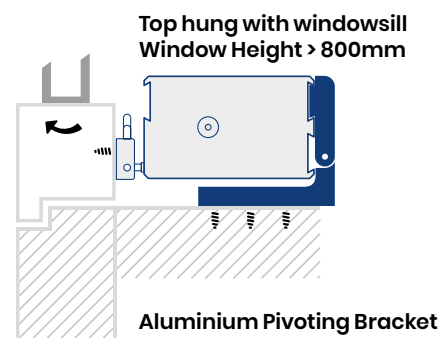
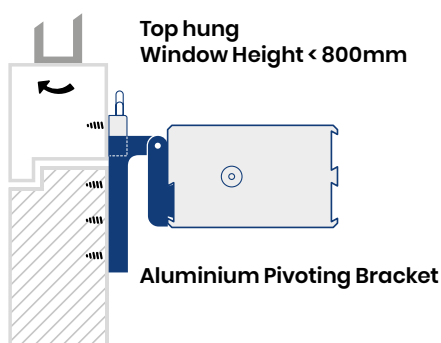
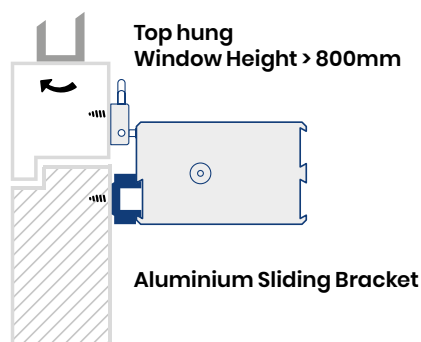


24V TF SERIES
CONTROL

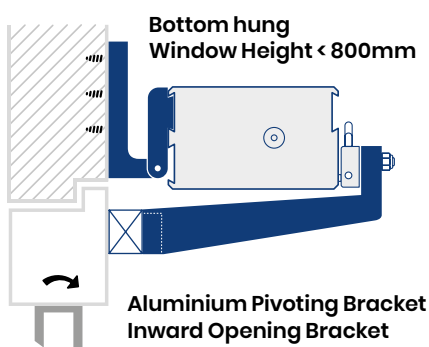
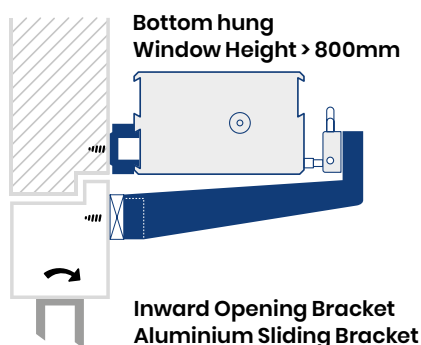


WEATHER
STATION

OUTWARD OPENING INSTALLATION EXAMPLES



INWARD OPENING



CHOOSING A FIXED OR SWIVEL BRACKET

Minimum window height:
500mm with 250mm stroke,
800mm with 380mm stroke.
Windows with lower height require
the use of a pivoting bracket.

Always read the manufacturer's
instructions prior to installation.

WINDOW OPERATION FORCE CALCULATION

TOP, BOTTOM OR PIVOT HUNG WINDOWS

The formula for calculating the load the actuator has to move for top hung, bottom hung and pivot windows is the following:

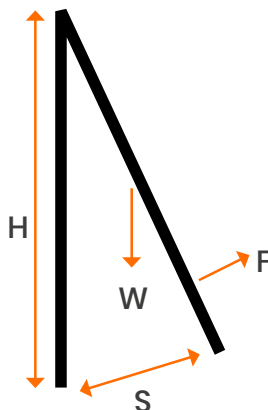
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

F = Force required (N)

W = Weight of the window (kg)

S = Opening stroke (mm)

H = Height of the window (mm)



EXAMPLE: 60 kg Weight / 1000mm Height / 500mm Stroke

$$F = 60/2 \times 500/1000 \times 10$$

$$F = 30 \times 0.5 \times 10$$

$$F = 150 \text{ newtons}$$

IMPORTANT: For installation on a pivoting window the given height is to be considered H/2.

IMPORTANT: The indicated loads do not include the force exerted by wind or other extreme weather conditions. If the actuator is to be installed in areas that may be subject to these conditions, contact our technical department to discuss your requirements.

The actuator rotation angle is usually half the height of the opening angle of the window. Check that there are no obstacles to the rotation of the actuator in order to prevent damage to it.

For actuators with non pivoting brackets, the height of the window must not be below a certain height (see individual product details) in order to prevent excessive chain bending. Please contact our sales support team for more details.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

DOMES AND SKYLIGHTS

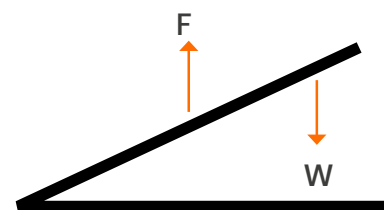
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

The formula for calculating the load the actuator has to move for domes and skylights is the following:

$$F = \frac{W}{2} \times 10$$

F = Force required (N)

W = Weight of the window (kg)



EXAMPLE: 110 kg Weight / 1000mm Height / 500mm Stroke

$$F = 110/2 \times 10$$

$$F = 55 \times 10$$

$$F = 550 \text{ newtons}$$

SKYLIGHTS: The opening can be hung on one side or have a central axis of rotation. In the latter case, you have to consider the distance between the axis of rotation and the point of application of the actuator as the frame height. A Velux type of opening on a horizontal roof or roof sloping up to 30° horizontally weighs 50% on the hinges and 50% on the actuator. In the case of centre rotation, the weight is practically nothing and is determined only by the windows frictions.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

! IMPORTANT: If the window frame is accessible, or installed at a height of less than 2.5m from the ground, an emergency stop system must be fitted to prevent the crushing or entrapment of clothing or body parts inserted between the moving and fixed elements of the window frame.