

PRODUCT SHEET

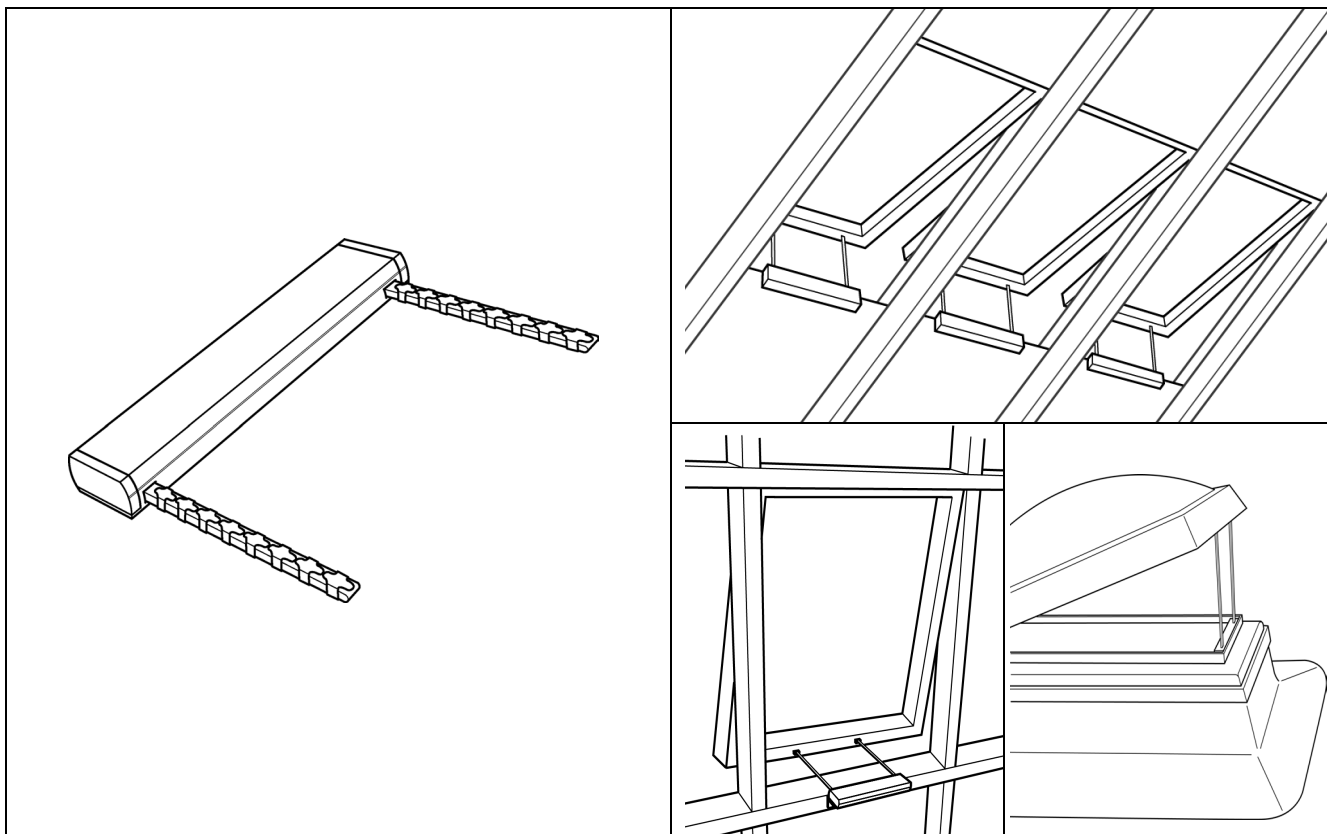


Electric window operator WMU 120

Replaces version no: 05
Applies from production code: AK02B

Date: 28 June 2001
No: WMU 120 GB-06

WMU 120



Description

Compact 24 V DC window operator, with two chains for opening and closing of heavy windows.

The window operator is tested in accordance with DIN 18232 and is thus suited for application with smoke ventilation systems.

The housing is protected against corrosion and the chain is made of stainless steel.

The window can be opened in variable positions up to max. 400 mm with a pressure capacity of 400 N (programmable). The tractive capacity can be programmed from 150 N to 300 N. Other programming is available on request at a higher price.

The window operator can be disengaged to facilitate cleaning of the window.

Application

The WMU 120 can be used for heavy windows in pitched roofs and in large window walling solutions; it can be used for outward opening windows whether

they are manufactured from timber, plastic or aluminium.

Brackets (WAB 120) for right angle installation on window walling solutions and pivoting brackets (WAB 121) for small windows are available. Pivoting brackets WAB 520 must be used for VELUX roof windows.

Combination with other products

The WMU 120 may be combined with the following WindowMaster products:

- WUC 102, 191, 192 control systems
- WEP power supplies
- WSC smoke ventilation units
- WLL 120 2-core cable

For further details on these products, please see separate product sheets.

Technical data on WMU 120

WMU 120 GB-06

Material	Aluminium housing protected against corrosion and chain of stainless steel.			
Colour	Aluminium (EV1). RAL colours are available on request at a higher price.			
Dimensions	504 mm x 52 mm x 92 mm (W x H x D).			
Chain opening	Max. 400 mm; the maximum opening angle depends on the construction of the window.			
Weight	3.5 kg.			
Temperature	-10°C – +60°C.			
Voltage, active	24 V DC. Min. 14 V, max. 40 V peak (max. 50% ripple).			
Voltage, no load	Max. 40 V.			
Current consumption	2,0 A (overload fuse 2,2 A).			
	Current consumption continuous 400 N pressure:	1.7 A @ 24 V DC.		
	Current consumption continuous 200 N pressure:	1.1 A @ 24 V DC.		
	Current consumption continuous 300 N traction:	1.9 A @ 24 V DC.		
	Current consumption continuous 150 N traction:	1.1 A @ 24 V DC.		
	Current consumption at end stop 300 N traction:	2 A / 400 ms @ 24 V DC.		
Current consumption at end stop 150 N traction:	1.4 A / 400 ms @ 24 V DC.			
Power consumption	Max. 48 W at 24 V.			
Tractive capacity	Programmable: From 150 N to 300 N. The window operator's standard programming has a tractive capacity of 300 N at the outer part of the chain, and 225 N at the inner 70 mm of the chain.			
Pressure capacity	Programmable: From 150 N to 400 N, standard programming 400 N			
Connection	Please observe the following minimum wiring dimensions for connection to control unit:			
	Up to	15 m	30 m	45 m
	mm ²	0.75 mm ²	1.50 mm ²	2.50 mm ²
(apply to WindowMaster control units only).				
2-core cable WLL 120 (0.75 mm ² , 15 m) is available from WindowMaster. Cables used with smoke ventilation systems must be in accordance with fire authority regulations.				
Maintenance	For all WindowMaster products it is recommended to make a WindowMaster service contract and to lubricate the window hinges once per year to ensure long life and a reliable functioning of the product.			
Cleaning	The surface may be cleaned with a soft damp cloth using a small amount of household cleaner, diluted in water.			
Delivery includes	Stainless screws, fitting template, sash brackets and detailed installation instructions (WMa 450308).			
Frame depth	When installed directly onto the frame: Min. 75 mm. If the frame depth is less than 75 mm, a bracket for right angle installation must be used (WAB 120).			
Window height	When installed directly onto the frame: Min. 700 mm. If the window height is less than 700 mm, a pivoting bracket must be used (WAB 121).			
Fire test	Tested in accordance with DIN 18232, part 3 (30 minutes at 300°C).			
CE marking	This product has been CE marked in accordance with relevant EU directives. The product has been tested with genuine WindowMaster control units only and together with these, it meets the requirements of the EMC directive for household, trade and light industry.			
Note	<p>Installation in rooms with a high level of humidity must comply with relevant regulations (contact a qualified electrician if necessary).</p> <p>WindowMaster window operators must only be connected to genuine WindowMaster power supplies. If power supplies other than WindowMaster are used for connection to WindowMaster window operators then this will invalidate in full any warranty or guarantee for WindowMaster window operators.</p> <p>WindowMaster take no responsibility for the performance of WindowMaster products or third party products in this instance.</p> <p>We reserve the right to make technical changes.</p>			