



- Features:**
- Slim design
  - variable chain stroke
  - overload protection
  - double insulated
  - die cast body

## MAC 4

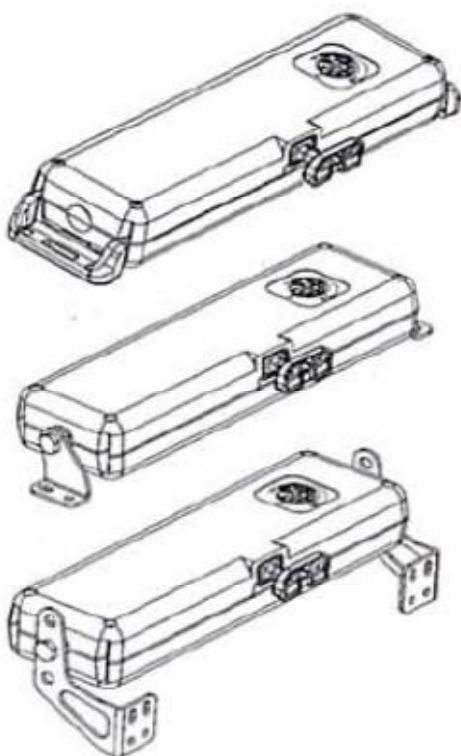
Stainless Steel Chain



Chain adjustment

### MAC 4

Fixing illustration  
see table below



### Technical data

Suitable for

### 230 volt

### Natural Ventilation applications

Input/operating voltage:  
Power consumption:  
Current absorption:

230/240volts AC. at 50Hz  
75 watts  
0.32 amps at 300N full load

Thrust force:  
Drive force:  
Stroke availability:

typically, 300 Newtons @ 300mm  
300N  
variable, 100mm-400mm  
in 50mm increments, 100,150 etc

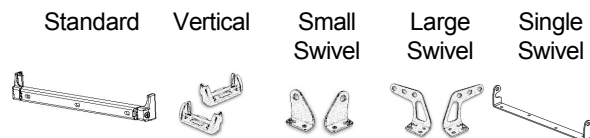
Chain Speed:  
Sash fixing adjustment:  
Chain material:  
Warning device  
Operating time:  
Protective system:  
Range of temperature:  
CE marked device:  
Motor case material:  
Dimensions:  
Flex length:  
Chain end/sash plate:  
Sash Connection:

28mm per second  
10mm  
double link stainless steel  
buzzer indication to prevent incorrect installation  
approx 28mm per second  
IP55  
+5° C to +50° C  
EEEC 89/336, EEC 73/23  
alloy casting  
+/- 285mm X 47mm X 95mm (lxhxd)  
1 metre  
Supplied  
eye bolt & plate

Maximum sash width per motor:  
Maximum motor synchronisation  
Drilling/Fixings template:  
Minimum casement height:

1,400mm  
maximum of 3 motors, with optional synchro module  
included  
800mm, **without** the use of a pivot bracket set

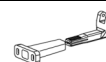
Fixing bracket types: Window height



Type Code		224411	224412	224414	224413	244752
Maximum motor stroke per window height	400mm	150	200	300	400	100
	500mm	300	400	400	400	200
	600mm	400	400	400	400	400
	800mm	400	400	400	400	400

for Bottom Hung Opening IN Windows

224415



### Motor force calculation

$$F = (.54 \times P) \times (C/H)$$

H=window height  
P= window weight  
C= chain travel  
F=force required

