

- 1 D+H Mechatronic (english)**
- 1.1 CDM Series - ACB drives**
- 1.1.1 ACB chain drive - CDM-1-ACB - freely configurable**

## **24 V DC / Special production according to customer requirements**

### **Performance features:**

Electromotive drive unit for mounting on the window frame profile.

Drive for electromotive opening and closing of extremely heavy windows and flaps in façade and roof areas.

Can be combined with all D+H locking drives.

The drive is equipped with microprocessor-controlled motor and synchronous electronic BSY+ for a precise synchronous running of four drives. Low wiring effort with an option of looping in up to 2 drives. Drive functions and performance features are individually programmable via the D+H software SCS. Integrated ACB (Advanced Communication Bus) BUS interface with ModBus protocol. Direct integration via open BUS communication through the ACB (Advanced Communication Bus), e.g. in a building management system (building automation). High-speed function (HS) for especially fast opening windows in case of fire (SHEV). Low operating noises thanks to the innovative acoustic decoupling of the drive components. Use of a wear-free brushless motor with high efficiency. The drive is available with special chain stabilisation with corrosion protection and lifetime lubrication. Drive chain with symmetrical chain outlet for easy installation and an appealing design due to compact design.

A multi-stage anti-trap protection system (runtime, force/power, stroke) comes standard and can be set via the D+H software SCS. In order to reduce the permanent load on the gasket, a relief of pressure on window gasket is performed after the elements have been closed. Easy installation thanks to a polarity reversal protection connector system.

### **Technical data:**

Operating voltage: 24 V DC /  $\pm 15\%$

Current consumption: 2 A

Duty cycle: 30 % (ON: 3 min. / OFF: 7 min.)

Shutdown: Integrated electronic load cut-off

Configuration: **Main or Sub**

Force of pressure: 1000 N (note pressure load diagram)

Tensile force: 1000 N

Nominal locking force: 3500 N

Service life: 20000 double strokes

Stroke length: **300 mm - 1300 mm** /  $\pm 2\%$

OPEN running speed: 7 mm/s

OPEN running speed - SHEV:

**11,5 mm/s (with 500 + 600 mm stroke)**

**15 mm/s (with 700 + 800 mm stroke)**

**18,5 mm/s (with 1000 mm stroke)**

**22,5 mm/s (with 1100 + 1200 + 1300 mm stroke)**

Type of protection: IP 42

Emission sound pressure level:  $L_{pA} \leq 45$  dB(A)

Temperature range: -15 °C till +75 °C

Fire resistance: B300 (30 min / 300 °C)

Housing: Aluminium

Surface: **on request**

Colour: **on request**

Connection: Silicone cable (must be ordered separately)

Dimensions (WxHxD): **608-841 x 53 x 90 mm**

### **Scope of supply:**

Drive unit, instruction for use  
The drive is supplied without connection cable.  
Pre-assembled silicone cables with connector plugs must be ordered separately.

Brand: D+H Mechatronic AG  
Type: CDM-1-PLP

***The D+H partner on site is at your disposal for design variants.***

[Planning Support](#)

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