

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

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

Drive for the integrated, hidden installation in the window profile and for mounted installation. For the convenient motorised opening and closing of windows and flaps. Useable for smoke exhaust (SHEV), D+H Euro SHEV in accordance with EN 12101-2 as well as for natural ventilation. Can be combined with D+H locking drives.

#### **Performance features:**

Integrated, freely programmable electronic shut-down device to prevent a defect in the event of an overload on the window or drive;

Integrated ACB (Advanced Communication Bus) BUS interface with ModBus protocol;

The drive is integrated directly via open BUS communication through the ACB (Advanced Communication Bus), e.g. in a building management system (building automation);

High precision synchronised electronics for running up to 8 drives simultaneously;

Low operating noises thanks to the innovative acoustic decoupling of the drive components;

Corrosion protected, hardened steel chain with rigid backing and lifetime lubrication;

High-speed function (HS) for opening windows especially fast in case of fire (SHEV);

Adjustable, multi-stage anti-trap protection system (runtime, force/power, stroke);

Gasket protection thanks to the automatic relief of pressure on window gasket after a closing process;

Low wiring effort with an option of looping in up to 3 drives;

Easy installation thanks to s polarity reversal protection connector system;

Connection from either the left or the right side is possible (supply includes BUS signals);

Custom configuration possible via D+H software SCS;

Drive with extended cable monitoring (monitoring for short circuit, wire breakage and cable breakage);

#### **Functional description ACB**

Secure SHEV-BUS communication via an encrypted data transfer between D+H Mechatronic AG control panels and drives.

Directly controlling the drive using the ACB is possible. The drive is set to the pole change operation at the factory by default.

Control with perfect positioning and feedback including information about the CURRENT position.

Status messages such as the drive's OPEN and CLOSED signal are issued directly via ACB communication.

The general status of the drive, such as the total travel path, number of control units, diagnostics and the emergency drive function can be evaluated.

#### **Technical data:**

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

Current consumption:

0.6 A (with 350 mm stroke)

0.8 A (with 500 + 600 mm stroke)

1 A (with 700 mm stroke)

1 A (with 800 - 1300 mm stroke)

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

Shutdown: Integrated electronic load cut-off

Configuration: **Main or Sub**

Design: **Right or Left**

Force of pressure: 250 N

Tensile force: 250 N

Nominal locking force \*\*: 1500 N

Service life: 20000 double strokes \*

Stroke length: **350 mm - 1300 mm /  $\pm 2$  %**

OPEN running speed: 6.7 mm/s

OPEN running speed - SHEV:

9.4 mm/s (with 350 mm stroke)

13.6 mm/s (with 500 - 700 mm stroke)

15 mm/s (with 800 - 1300 mm stroke)

CLOSED running speed:

5 mm/s (with 350 mm stroke)

6.7 mm/s (with 500 - 700 mm stroke)

6.7 mm/s (with 800 - 1300 mm stroke)

Type of protection: IP 42

Emission sound pressure level:  $L_pA \leq 35$  dB(A)

Temperature range: -15 °C (-5 °C \*\*\*) till +75 °C

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

Opening mechanic: Maintenance-free, corrosion protected hardened push linked chain with lifetime lubrication

Housing: Aluminium

Surface: **on request**

Colour: **on request**

End caps, plug: Plastic

Connection: Silicone cable

Dimensions (WxHxD): **405-885 x 30 x 39 mm**

\* For vertical use, please consult with D+H Sales!

\*\* Depending on the mounting

\*\*\* In accordance with VdS 2580

#### **Scope of supply:**

Drive unit with silicone connection cable with system plug, instruction for use

Brand: D+H Mechatronic AG

Type: CDC-1-ACB (FR)

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

[Planning Support](#)

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