

- 1 D+H Mechatronic (english)**
- 1.1 ZA Series - ACB drives**
- 1.1.1 ACB rack and pinion drive - ZA-1-ACB - freely configurable**

24 V DC / Special production according to customer requirements

Electromotive drive unit for convenient opening and closing of bottom hung-, top hung- and trapezoidal windows, flaps and skylights with high weights. Useable for smoke exhaust, D+H Euro-SHEV according to DIN EN 12101-2 as well as daily natural ventilation.

Performance features:

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);
Rack and pinion drives equipped with microprocessor-controlled motor and synchronous electronic BSY+ for a precise synchronous running of the rack and pinion drives at a window;
High-precision synchron-electronic for parallel run for up to 8 drives with the option to link with up to 4 lock drives;
Sustains the application at trapezoidal windows with up to 4 rack and pinion drives in one drive group;
Enchased drive unit;
High-speed function (HS) for opening windows especially fast in case of fire (SHEV) (optional);
Electronic limit stop and overload cut-off;
Various drive functions and drive parameters (stroke limitation, force, speed) via D+H software SCS programmable;
Extra silent motor running in ventilation mode because of reduced running speed;
Cable entry possible at top or bottom;
Drive unit changeable from left to right;
Service life > 20000 strokes in case of ventilation;

Functional description ACB

Secure SHEV-Bus communication via an encrypted data transfer between D+H Mechatronic AG control panels and drives. realisation of simultaneous control commands in various drive groups by group linking.

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:

0.5 A (ZA-0300-1-ACB) (1.2 A with HS)

1 A (ZA-0800-1-ACB) (2 A with HS)

1.2 A (ZA-1000-1-ACB) (2.2 A with HS)

1.4 A (ZA-1500-1-ACB) (2.5 A with HS)

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:

300 N (ZA-0300-1-ACB)

800 N (ZA-0800-1-ACB)

1000 N (ZA-1000-1-ACB)

1500 N (ZA-1500-1-ACB)

(note pressure load diagram)

+ 20 % cut-off reserve (temporary)

Tensile force:

300 N (ZA-0300-1-ACB)

800 N (ZA-0800-1-ACB)

1000 N (ZA-1000-1-ACB)

1000 N (ZA-1500-1-ACB)

Nominal locking force **: Max. 1400 N (1100 N ***)

Service life: > 20000 double strokes *

Stroke: **100 mm - 1500 mm**

OPEN running speed: 7 mm/s

OPEN running speed - SHEV: 7 mm/s

OPEN running speed - HS: 17 mm/s

CLOSED running speed: Separated, according to close section from 7 mm/s to 5 mm/s

Type of protection: IP 65

Emission sound pressure level:

LpA ≤ 51 dB(A)

LpA ≤ 60.5 dB(A) (with HS)

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

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

Opening mechanic: Stainless steel rack (V2A), maintenance -free

Tube: Aluminium

Colour: **on request**

Housing motor: Polycarbonate

Colour: **on request**

Connection: Silicone cable

Dimensions (WxHxD):

Tube 225-1662 x 30 x 30 mm

Housing motor 160 x 104 x 46 mm

Re = 1000 double strokes

Le = 20000 double strokes *

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

** Depending on the mounting

*** In accordance with VdS 2580

Scope of supply:

Drive unit with 2.5 m silicone connection cable, eyebolt (6 mm eye), instruction for use

Brand: D+H Mechatronic AG

Type: ZA-1-ACB

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

[Planning Support](#)

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Quantity: Stk Preis: € TP: €