

**ACB rack and pinion drive - freely configurable - ZA-1-ACB****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 in accordance with DIN EN 12101-2 as well as daily natural ventilation.

**Performance features:**

Integrated Advanced Communication Bus interface (ACB) with open Modbus RTU 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).

Drive is equipped with microprocessor-controlled motor and synchronous electronic BSY+ for a precise synchronous running of several drives at a window.

High-precise motor- and 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 drives in one drive group.

Enchased drive unit.

Electronic limit stop and overload cut-off.

Various drive functions and different 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 double strokes in case of ventilation.

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.

**Extension functions:**

**Option "HS"** - High-Speed option for SHEV application possible

**Option "OT"** - Reduced swivel range by omitting the tube

**Option "CP"** - Customized drive function programming, e.g. operation speed, force and stroke

**Option "HP"** - Stroke programming

**Option "VP"** - Signal programming for connection with D+H BSY+ locking drives

**Option "SA"** - End position message "switch OPEN"

**Option "SZ"** - End position message "switch CLOSED"

**Option "SA-SZ"** - End position message "switch OPEN" und "switch CLOSED"

**Option "LS"** - Low-speed programming in CLOSE direction 5 mm/s

**Option "AS2"** - Acoustic signal according to protection class 2 MaschRL/42/EG

**Option "AS3"** - Acoustic signal according to protection class 3 MaschRL/42/EG

**Option "SKS"** - Direct connection of an anti-pitch strip or an optical sensor for closing edge monitoring at the drive possible

**Option "W"** - Weatherproof for outdoor use

**Option "WS"** - Swimming pool protected for use in swimming pools

**Option "special colour"** - Colour coating for perfect integration into façade optics according to RAL, DB, NCS

**Technical data:**

Supply: 24 V DC / ±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 shutdown

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)

Cut-off reserve: +20% (short-term)

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: 7.1 mm/s

OPEN running speed - SHEV: 8 mm/s

OPEN running speed - HS: 17 mm/s

CLOSED running speed: 7.1 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)

Housing: Aluminium / Polycarbonate

Colour: Special colour according to RAL/DB/NCS

Connection: Silicone cable

W x H x D:

Tube 225-1662 (stroke-dependent) x 30 x 30 mm

Housing Motor (based on tube) 160 x 104 x 46 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, instruction for use

Brand: D+H

Type: ZA-1-ACB

Art. No.: 27.011.00

Quantity: ..... pcs    Price: ..... EUR    TP: ..... EUR

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

<https://www.dh-partner.com/hr/hr/usluge/savjetovanje-i-podrska-u-planiranju>

**Important information:**

This product description does not constitute a tender. The responsibility for compliance with public procurement law requirements lies with the tendering planner or architect.

Installation and commissioning in accordance with the manufacturer's instructions.

Subject to technical changes.