

DBA - A damper motor unit.

### INTRODUCTION

DBA is a damper motor, with an adapted gearbox, to control Lindinvent's dampers.

### CHOICE OF DAMPER MOTOR

DBA is used for all of Lindinvent's circular and rectangular dampers.

### FUNCTIONS

The damper motor is designed to regulate air volume or pressure in a ventilation duct quickly.

- The motor cover has flanges for easy controller installation. All controllers have holders on the back that fit the motor cover flanges.
- Adjusts the damper angle according to the control signal from the connected controller.
- Equipped with an indicator pin to show the damper opening angle.
- Supports field calibration.
- Adjustable rotation direction.
- The damper angle can be set manually (only in the off position).
- Can be set to normal or high speed mode.
- Can be set to normal or high torque mode.



DBA mounted on a circular damper with its associated controller mounted on its motor cover.

### TECHNICAL SPECIFICATIONS

#### General

Dimension: 140 x 97 x 90 mm (LxWxH)

#### Material

Gearbox: Metal

Motor bracket: Powder coated steel, RAL 9003

Motor cover: PS (Polystyren), RAL 9003

Net weight: 0,9 kg (0,35 m cable with connector)

#### IP-class

IP42 [When mounted on a Lindinvent damper motor shelf]

#### Adjusting pin:

To select a desired damper angle, turn the shaft with a 7mm open-end wrench. The damper motor should be switched off. Changing the damper position does not affect the motor calibration.

#### Electrical system

Supply: 24 VAC

Power: 2.3 VA (idle), 4 VA (normal operation) or 14 VA (high speed)

CE marking: Complies with EMC and the low voltage directive

#### Performance

Running time normal mode: 0-90° within 6.5 s

Running time high-speed mode: 0-90° within 2.5 s

#### Input and output signals

Input: 1 pc 0-10 VDC control signal (white)

Output: 1 pc 0-10 VDC feedback signal (blue)

#### Order information

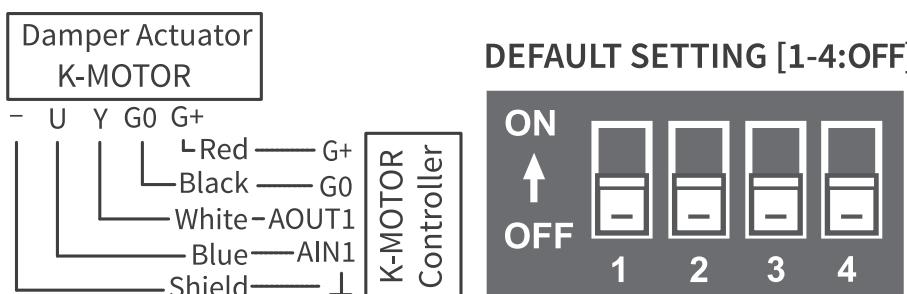
Can be ordered with cabling in two designs: Length 0.35 meters with a pre-mounted connector or length 3 meters without a mounted connector.

## PERFORMANCE SETTINGS

DBA is delivered in normal operating mode. All DIP switches (1 to 4 below) are set to OFF.

The switches affect the function selection as follows:

1. Speed (Normal or High)
2. Direction of rotation (CCW or CW)
3. Torque (Normal or High)
4. Field calibration (Off or Active)



The DBA external connection diagram and NORMAL settings for DIP switches 1 to 4.

## COMPLEMENTARY DOCUMENTATION

Document can be viewed on the product page at [www.lindinvent.com](http://www.lindinvent.com)

| Document                          | Comments  |
|-----------------------------------|---|
| Installation instructions         | See the installation instructions for DCV-RCb and RCXb.   |
| Operation instructions            | See the commissioning/operation instructions for the controller.  |
| Maintenance instructions          | The motor unit is considered maintenance free. For cleaning and control measurement of a flange, see the maintenance instructions for SPMF. |
| External connection diagram       | Shows how conductors from equipment are connected.  |
| Environmental product declaration | Assessed by Byggarubedömningen in Sweden.   |
| AMA-text                          | AMA code UEB.13: Actuators for dampers, electric, continuous without spring return. See the current controller.                             |