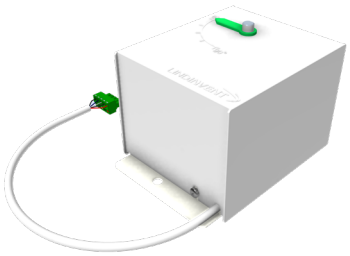
DBA DAMPER MOTOR

Version A01



DBA - A damper motor unit designed for Lindinvent controllers and dampers.

INTRODUCTION

DBA is a microprocessor-controlled BLDC motor with an adapted gearbox to control Lindinvent's dampers.

CHOICE OF DAMPER ACTUATOR

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

FUNCTIONS

The actuator adjusts the damper blade angle according to the control signal. To enable a simple and flexible mounting of the control unit to the actuator, the actuator cover has been equipped with flanges that fit into holders on the back of the regulator.

- Adjusts damper blade angle according to calibration and controller signal.
- Equipped with indicator pin to show the throttle opening angle.
- Supports field calibration.
- Adjustable rotation direction.
- Normal or high speed mode.
- 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 at rest; 4 VA at normal operation; 14 VA when running at high speed, not standard.
CE markning: 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
Output: 1 pc 0-10 VDC feedback signal

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.

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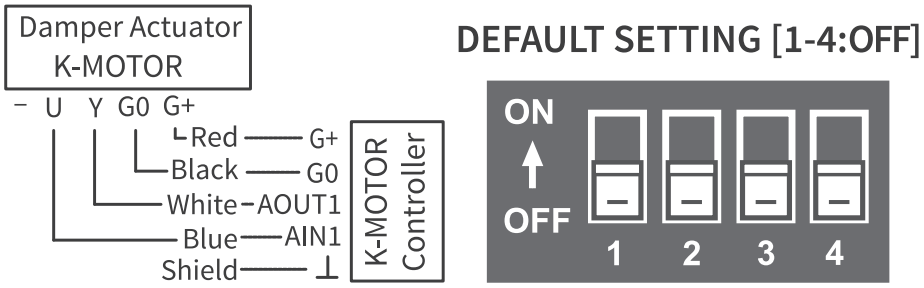
PERFORMANCE SETTINGS

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

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 Byggvarubedömningen in Sweden.
AMA-text	AMA code UEB.13: Actuators for dampers, electric, continuous without spring return. See the current controller.