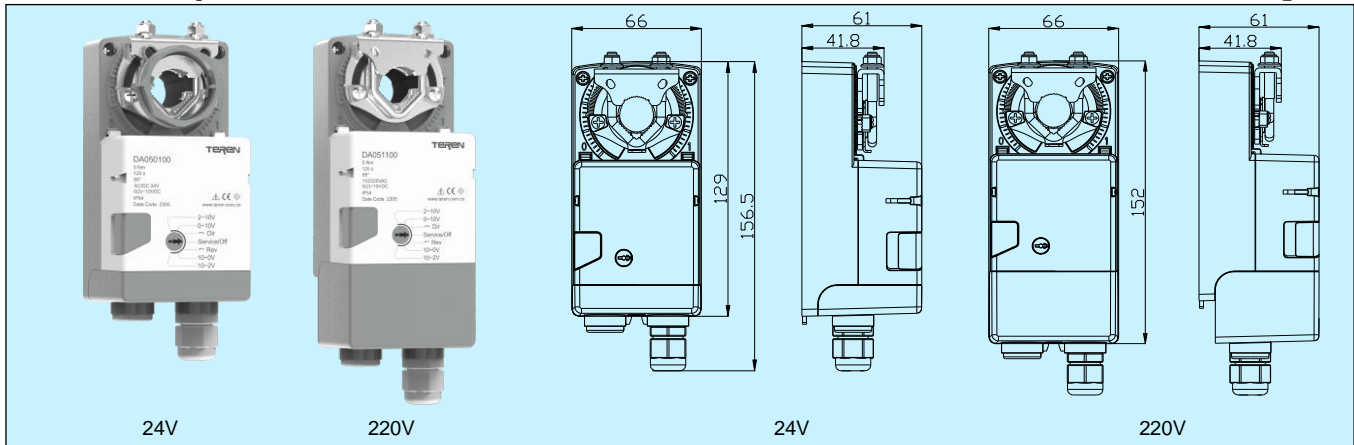


DA05 Damper Actuator, 5Nm Series

TEREN



Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication: can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient for user to manually adjust the actuator when the power is off or the control signal input is absence
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- Highly reliable: full stroke overload protection function, no limit switch, self-stop at the end point
- Removable terminal cover design, convenient and easy for installation and wiring
- High service life: using industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 5 Nm

Direction of rotation: set by knob

Position indicator: mechanical

Manual override: set by push button

Angle of rotation: max. 95°

Running time: 120s

Connection shaft: circular $\Phi 6\sim 15\text{mm}$, square 4.5~11mm, min. length 43mm

Power:

Power Range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 1W, Hold 0.5W	Act 1.5W, Hold 0.8W
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0~10V(input impedance 250k Ω); 4~20 mA(input impedance 200 Ω); RS485/Modbus

Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500 Ω); RS485/Modbus-RTU

Internal switch: 2 \times SPDT, 250V/3A

External position switch: 1 or 2, SPDT, 250V/3A, must be ordered separately, see External Position Switch

Electrical connection: screw terminal

Mode of operation: Type 1 to EN60730-1

Work temp.: -30~50°C, 95%RH, no cond.(EN60730-1)

Storage temp.: -40~80°C

Noise level: $\leq 35\text{dB}$

Protection: IP54

Weight: 0.58kg (24V models)

Approval: CE

Models

Model	DA05				5Nm Damper Actuator
Power		0			24VAC/DC 85~265VAC
Control signal		1	0		on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback			1	0	N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch			1	0	N/A 2 \times SPDT, 250V/3A

When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.

External Position Switch (must be ordered separately):
The external position switch can feedback the position status of the actuator. Suitable for field installation, can replace the function of the internal switch and can adjust the position set point freely.

Model: SW1(1 \times SPDT, 250V/3A); SW2(2 \times SPDT, 250V/3A)

Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)

Storage temp.: -40~80°C

Power Protection: class II-totally insulated

Enclosure Protection: IP54

Weight: 0.1kg

