

MDA10.1, MDA10.2: Actuators with 2 and 3 point electronic

How energy efficiency is improved

Time related cut-off for efficient energy use.

Areas of application

For controllers with a switching output (2-point or 3-point control). For actuation of air, shut-off and restrictor dampers and louvres.

Features

- 5 and 10 Nm torque and holding torque
- 230 V, 50/60 Hz or 24 V, 50/60 Hz
- 30 to 120 sec. running time for 90°
- Protection class IP54 ⁶⁾
- Operating noise < 30 db(A)
- Self-centring axle adaptor
- Gearbox that can be disengaged for positioning the damper and manual adjustment
- Synchronous motor with control and electronic cut-off
- Maintenance-free

Technical description

- Two-part housing made of self-extinguishing plastic, lower section black and upper section yellow
- Suitable for all installation positions
- Connecting cable 1.2 m long, 3x 0.75 mm²
- Change direction of rotation by reversing the connections



Type ⁴⁾	Control	Torque Nm	Holding torque Nm	Running time for 90° s	Power	Weight kg
MDA5.2	2/3-point	5	5	120	230 V~	0,7
MDA10.2	2/3-point	10	10	120	230 V~	0,7

Power supply			Permissible ambient temp.		-20...65 °C ⁵⁾	
MDA5.2/10.2 230V~	± 15%, 50...60 Hz			Permissible ambient humidity		5...85 %rh
				Degree of protection (horizontal)		without condensation
				Protection class 24 V		IP 54 as per EN 60529 ⁶⁾
Power consumption				230 V		III as per IEC 60730
				Noise while running		II as per IEC 60730
MDA5.2/10.2	2,0 W	4,0 VA			Response time	< 30 dB(A)
						200 ms
Angle of rotation	90° ¹⁾					
Damper spindle	Ø 8...16 mm					
	† 6,5...12,7 mm		Fitting instructions		MV 506064	
Damper spindle (hardness)	Max. 300 HV		Declaration on materials		MD 51.040	

Accessories

ZMVA	mechanical connection kit
S1VA250.1	1 switch
S2VA250.2	2 switches

1) Maximum angle of rotation: 95° (without stops for the dampers)
2) Fully variable from 0...90°; max. loading 5 (2) A, 24...230 V
3) Only one potentiometer or one set of auxiliary contacts can be fitted to each drive!
4) Version with halogen-free cable available on request
5) Operating time approx. 80% up to 65 °C, 100% up to 55 °C
6) See Fitting instructions