

# Mechanical Fail-Safe Damper Actuator NFA



Spring return actuator with emergency function for adjusting air dampers in ventilation and air conditioning systems in buildings

- Torque 10Nm
- Nominal voltage AC 24...240V / DC 24...125V
- Control: Open-close



## Technical data

<b>Electrical data</b>	Nominal voltage	AC 24...240V, 50/60Hz / DC 24...125V	
	Nominal voltage range	AC 19.2...264V / DC 21.6...137.5V	
	Power consumption	In operation 6W @ nominal torque At rest 2.5W For wire sizing 9.5VA	
	Connection	Cable 1m, 2 x 0.75mm <sup>2</sup>	
<b>Functional data</b>	Torque	Motor Min. 10Nm @ nominal voltage Spring return Min. 10Nm	
	Direction of rotation	Can be selected by mounting L / R	
	Manual override	With hand crank and interlocking switch	
	Angle of rotation	Max. 95°↔, can be limited with adjustable mechanical end stop	
	Running time	Motor ≤75s (0...10Nm) Spring return 20s @ -20...50°C / max. 60s @ -30°C	
	Sound power level	Motor ≤45dB(A) Spring return ≤62dB(A)	
	Service life	Min. 60,000 emergency positions	
	Position indication	Mechanical	
	<b>Safety</b>	Protection class	II Totally insulated <input type="checkbox"/>
		Degree of protection	IP54 NEMA2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC	
	Low-voltage directive	CE according to 2006/95/EC	
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02	
	Mode of operation	Type 1.AA	
	Rated impulse voltage	4kV	
	Control pollution degree	3	
	Ambient temperature	-30...+50°C	
	Non-operating temperature	-40...+80°C	
	Ambient humidity	95% r.h., non-condensating	
	Maintenance	Maintenance-free	
<b>Dimensions / Weight</b>	Dimensions	See «Dimensions»	
	Weight	Approx. 2.1kg	

## Dimensions [mm]

### Dimensional drawings

Variant 1a:  
3/4"-spindle clamp (with insertion part) EU Standard

Damper spindle	Length			
	≥85	10...22	10	14...25.4
	≥15			

Variant 1b:  
1"-spindle clamp (without insertion part) EU Standard

Damper spindle	Length		
	≥85	19...25.4 (26.7)	12...18
	≥15		

Variant 2:  
1/2"-spindle clamp (optional via configuration)

Damper spindle	Length		
	≥85	10...19	14...20
	≥15		

