



FIRBESON

F30A Series Low Noise Damper Actuator

The damper actuator specially designed for the air dampers of the HVAC Systems



Torque

2Nm, 5Nm, 10Nm

Supply Voltage & Control

AC/DC19.2-28.8V or AC85-265V, 2/3 point

AC/DC19.2-28.8V, 0(2)-10V or 0(4)-20mA

Order code

F30 A - X X X - X

Accessories : L for low Noise;SL for Auxiliary Switches

Power source : 24 for AC/DC19.2-28.8V;
230 for AC 85-265V

Control : D for 2/3 point; M for modulating

Torque : 2Nm, 5Nm, 10Nm

Standard Damper Actuator

Labeling of Series

2Nm Model Types

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-2D24-L	2Nm	75s	AC/DC 24V Or AC 230V	Without
F30A-2D230-L				
F30A-2M24-L				
F30A-2D24-SL				With 2 SPDT
F30A-2D230-SL				
F30A-2M24-SL				

F30A-2-L Specification

Items	F30A-2D24-L F30A-2D24-SL	F30A-2D230-L F30A-2D230-SL	F30A-2M24-L F30A-2M24-SL
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	1.5W		
Power Consumption （off）	0.7W		
Cable	2/3 point: 1m cable 3*0.75mm ² ; Modulating: 1m cable 4*0.5mm ² ; Positional Feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	2Nm		
Damper Area （m ² ）	0.5		
Running Time	75s		
Control Signal	2/3 point		0(2)-10V or 0(4)-20mA
Angle of Rotation	0~90°（max 93°）		
Direction of Rotation	L/R switch		
Positional Feedback	None or 2 SPDT		
Life Cycle	≥70000		
Noise Level	≤35dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+50℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	 8-18mm		
Weight（Kg）	0.5		
Certificates	CE, UKCA, RoHS		

5Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-5D24-L	5Nm	150s	AC/DC 24V Or AC 230V	Without
F30A-5D230-L				
F30A-5M24-L				
F30A-5D24-SL				With 2 SPDT
F30A-5D230-SL				
F30A-5M24-SL				

F30A-5-L Specification

Items	F30A-5D24-L F30A-5D24-SL	F30A-5D230-L F30A-5D230-SL	F30A-5M24-L F30A-5M24-SL
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	1.5W		
Power Consumption （off）	0.7W		
Cable	2/3 point: 1m cable 3*0.75mm ² ; Modulating: 1m cable 4*0.5mm ² ; Positional Feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	5Nm		
Damper Area （m ² ）	1		
Running Time	150s		
Control Signal	2/3 point		0(2)-10V or 0(4)-20mA
Angle of Rotation	0~90°（max 93°）		
Direction of Rotation	L/R switch		
Positional Feedback	None or 2 SPDT		
Life Cycle	≥70000		
Noise Level	≤35dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+50℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	 8-18mm		
Weight （Kg）	0.5		
Certificates	CE, UKCA, RoHS		

10Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-10D24-L	10Nm	150s	AC/DC 24V Or AC 230V	Without
F30A-10D230-L				
F30A-10M24-L				
F30A-10D24-SL				With 2 SPDT
F30A-10D230-SL				
F30A-10M24-SL				

F30A-10-L Specification

Items	F30A-10D24-L F30A-10D24-SL	F30A-10D230-L F30A-10D230-SL	F30A-10M24-L F30A-10M24-SL
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	2.5W（24V）；3.5W（230V）		2.5W
Power Consumption （off）	0.7W（24V）；1W（230V）		0.7W
Cable	2/3 point: 1m cable 3*0.75mm ² ; Modulating: 1m cable 4*0.5mm ² ; Positional Feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	10Nm		
Damper Area （m ² ）	2		
Running Time	150s		
Control Signal	2/3 point		0(2)-10V or 0(4)-20mA
Angle of Rotation	0~90°（max 93°）		
Direction of Rotation	L/R switch		
Positional Feedback	None or 2 SPDT		
Life Cycle	≥70000		
Noise Level	≤35dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+50℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	 12-26.7mm		
Weight（Kg）	0.9		
Certificates	CE, UKCA, RoHS		