



FIRBESON

F30A Series Fast Running Damper Actuator

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



Torque

5Nm, 10Nm, 16Nm

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 : Q for Fast Running; SQ 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 : 5Nm, 10Nm, 16Nm

Standard Damper Actuator

Labeling of Series

5Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-5D24-Q	5Nm	2.5s-3.5s	AC/DC 24V Or AC 230V	Without
F30A-5D230-Q				
F30A-5M24-Q				
F30A-5D24-SQ				With 2 SPDT
F30A-5D230-SQ				
F30A-5M24-SQ				

F30A-5-Q Specification

Items	F30A-5D24-Q F30A-5D24-SQ	F30A-5D230-Q F30A-5D230-SQ	F30A-5M24-Q F30A-5M24-SQ
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）	15W		
Power Consumption （off）	2W		
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	2.5s-3.5s		
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	≥ 30000		
Noise Level	60dB		
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 -26.7 mm		
Weight （Kg）	1.0		
Certificates	CE, UKCA, RoHS		

10Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-10D24-Q	10Nm	4s-5s	AC/DC 24V Or AC 230V	Without
F30A-10D230-Q				
F30A-10M24-Q				
F30A-10D24-SQ				With 2 SPDT
F30A-10D230-SQ				
F30A-10M24-SQ				

F30A-10-Q Specification

Items	F30-10D24-Q F30A-10D24-SQ	F30A-10D230-Q F30A-10D230-SQ	F30A-10M24-Q F30A-10M24-Q
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power Consumption （on）	15W		
Power Consumption （off）	2W		
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	4s-5s		
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	≥30000		
Noise Level	55dB		
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 -26.7 mm		
Weight （Kg）	1.0		
Certificates	CE, UKCA, RoHS		

16Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-16D24-Q	16Nm	7s-8s	AC/DC 24V Or AC 230V	Without
F30A-16D230-Q				
F30A-16M24-Q				
F30A-16D24-SQ				With 2 SPDT
F30A-16D230-SQ				
F30A-16M24-SQ				

F30A-16-Q Specification

Items	F30A-16D24-Q F30A-16D24-SQ	F30A-16D230-Q F30A-16D230-SQ	F30A-16M24-Q F30A-16M24-SQ
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）	15W		
Power Consumption （off）	2W		
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	16Nm		
Damper Area （m ² ）	4		
Running Time	7s-8s		
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	≥30000		
Noise Level	55dB		
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 -26.7 mm		
Weight （Kg）	1.0		
Certificates	CE, UKCA, RoHS		