



FIRBESON

F30A Series Standard Damper Actuator

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



Torque

2Nm, 5Nm, 10Nm, 20Nm, 30Nm, 40Nm

Supply Voltage & Control

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

AC/DC19.2-28.8V, 0(2)-10V or0(4)-20mA

Order code

F30 A - X X X - X

Accessories : S 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, 20Nm, 30Nm, 40Nm

Standard Damper Actuator

Labeling of Series

2Nm Model Types

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-2D24	2Nm	35s	AC/DC 24V Or AC 230V	Without
F30A-2D230				
F30A-2M24				
F30A-2D24-S				With 2 SPDT
F30A-2D230-S				
F30A-2M24-S				

F30A-2 Specification

Items	F30A-2D24 F30A-2D24-S	F30A-2D230 F30A-2D230-S	F30A-2M24 F30A-2M24-S
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）	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	35s		
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	≤45dB		
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, UL, RoHS		

5Nm Model Types

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-5D24	5Nm	45s	AC/DC 24V Or AC 230V	Without
F30A-5D230				
F30A-5M24				
F30A-5D24-S				With 2 SPDT
F30A-5D230-S				
F30A-5M24-S				

F30A-5 Specification

Items	F30A-5D24 F30A-5D24-S	F30A-5D230 F30A-5D230-S	F30A-5M24 F30A-5M24-S
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）	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		
Technical Parameters			
Torque	5Nm		
Damper Area （m ² ）	1		
Running Time	45s		
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	≤45dB		
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, UL, RoHS		

10Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-10D24	10Nm	60s	AC/DC 24V Or AC 230V	Without
F30A-10D230				
F30A-10M24				
F30A-10D24-S				With 2 SPDT
F30A-10D230-S				
F30A-10M24-S				

F30A-10 Specification

Items	F30A-10D24 F30A-10D24-S	F30A-10D230 F30A-10D230-S	F30A-10M24 F30A-10M24-S
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)		
Power Consumption （off）	0.7W （24V）； 1W （230V）		
Cable	2/3 point: 1m cable 3*0.75mm ² ; Modulating: 1m cable 4*0.5mm ² ; Positional Feedback: 1m cable 6*0.5mm		
Technical Parameters			
Torque	10Nm		
Damper Area （m ² ）	2		
Running Time	60s		
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	≤45dB		
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, UL, RoHS		

20Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-20D24	20Nm	75s	AC/DC 24V Or AC 230V	Without
F30A-20D230				
F30A-20M24				
F30A-20D24-S				With 2 SPDT
F30A-20D230-S				
F30A-20M24-S				

F30A-20 Specification

Items	F30A-20D24 F30A-20D24-S	F30A-20D230 F30A-20D230-S	F30A-20M24 F30A-20M24-S
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）	2.5W（24V）；3.5W（230V）		
Power Consumption （off）	0.7W（24V）；1W（230V）		
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	20Nm		
Damper Area （m ² ）	4		
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	≤45dB		
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, UL, RoHS		

30Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-30M24	30Nm	75s	AC/DC 24V Or AC 230V	Without
F30A-30D24				
F30A-30D230				
F30A-30D24-S				With 2 SPDT
F30A-30D230-S				
F30A-30M24-S				

F30A-30 Specification

Items	F30A-30D24 F30A-30D24-S	F30A-30D230 F30A-30D230-S	F30A-30M24 F30A-30M24-S
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）	5W（24V）；5W（230V）		
Power Consumption （off）	0.7W（24V）；1W（230V）		
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	30Nm		
Damper Area （m ² ）	6		
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	≤45dB		
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）	1.4		
Certificates	CE, UKCA, UL, RoHS		

40Nm Model Type

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30A-40D230	40Nm	100s	AC/DC 24V Or AC 230V	Without
F30A-40D24				
F30A-40M24				
F30A-40D24-S				
F30A-40D230-S				With 2 SPDT
F30A-40M24-S				

F30A-40 Specification

Items	F30A-40D24 F30A-40D24-S	F30A-40D230 F30A-40D230-S	F30A-40M24 F30A-40M24-S
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）	5W（24V）		
Power Consumption （off）	0.7W（24V）		
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	40Nm		
Damper Area （m ² ）	8		
Running Time	100s		
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	≤45dB		
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）	1.4		
Certificates	CE, UKCA, UL, RoHS		