

EA700 Series Fast Running Damper Actuators

Designed for damper control within HVAC systems.



Torque:

5Nm, 10Nm, 16Nm

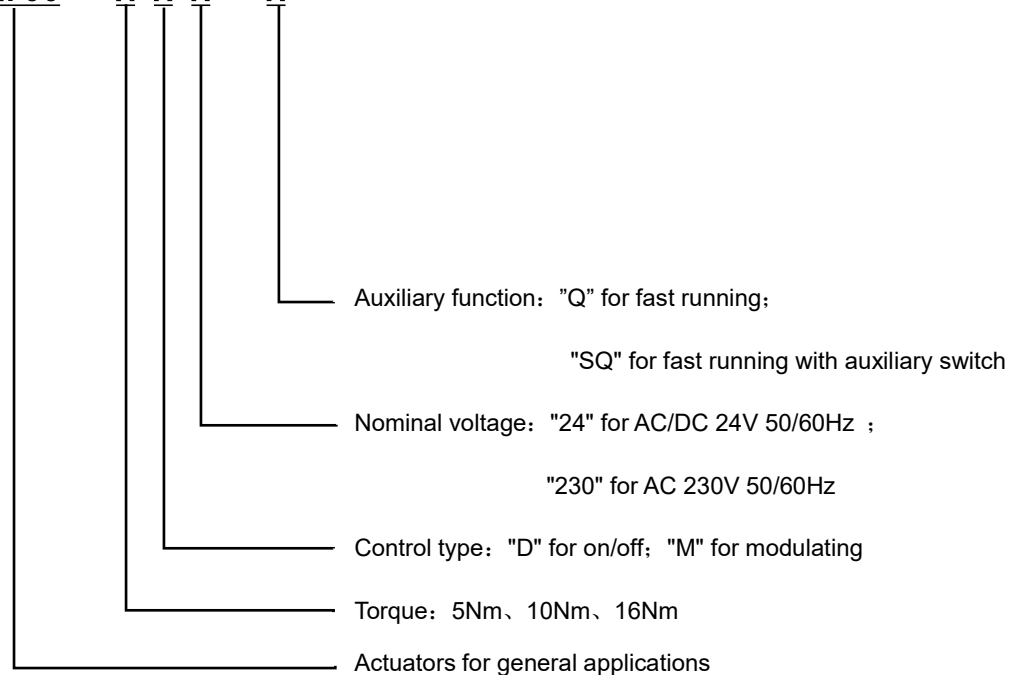
Nominal Voltage and Control Type:

AC/DC 24V or AC 230V 50/60Hz, 2-point/3-point, D

AC/DC 24V 50/60Hz, 0(2)-10V or 0(4)-20mA, M

Product Code Description:

EA700 - X X X - X



EA700 Series Fast Running Damper Actuators

5Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-5D24-Q	5Nm	2.5s-3.5s	AC/DC 24V	None
EA700-5D230-Q			AC 230V	
EA700-5M24-Q			AC/DC 24V	
EA700-5D24-SQ			AC/DC 24V	Auxiliary Switches
EA700-5D230-SQ			AC 230V	
EA700-5M24-SQ			AC/DC 24V	



Technical Specifications

Model		EA700-5D24-Q	EA700-5D230-Q	EA700-5M24-Q
		EA700-5D24-SQ	EA700-5D230-SQ	EA700-5M24-SQ
Electrical Parameters				
Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power	running	15W		
Consumption	holding	2W		
Cable Specification		On/Off Type: 1m cable 3*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		
General Parameters				
Torque		5Nm		
Damper Size		1m²		
Running Time		2.5s-3.5s		
Control Type		2-point/3-point		0(2)-10V or 0(4)-20mA
Rotation Angle		0~90°（93°max.）		
Rotation Direction		L/R switch		
Position Feedback		available with 2 auxiliary switches		
Life Cycle		≥30000		
Noise Level		60dB		
Working Environment				
Protection Class		II /III		
Protection Level		IP54		
Ambient Temperature		-30~+50℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
Dimension/Weight/Other				
Shaft		 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 3		
Weight		1.0Kg		
Certificate		CE、UKCA、RoHS		

EA700 Series Fast Running Damper Actuators

10Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-10D24-Q	10Nm	4s-5s	AC/DC 24V	None
EA700-10D230-Q			AC 230V	
EA700-10M24-Q			AC/DC 24V	
EA700-10D24-SQ			AC/DC 24V	Auxiliary Switches
EA700-10D230-SQ			AC 230V	
EA700-10M24-SQ			AC/DC 24V	



Technical Specifications

Model		EA700-10D24-Q	EA700-10D230-Q	EA700-10M24-Q
		EA700-10D24-SQ	EA700-10D230-SQ	EA700-10M24-SQ
Electrical Parameters				
Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power	running	15W		
Consumption	holding	2W		
Cable Specification		On/Off Type: 1m cable 3*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		
General Parameters				
Torque		10Nm		
Damper Size		2m²		
Running Time		4s-5s		
Control Type		2-point/3-point		0(2)-10V or 0(4)-20mA
Rotation Angle		0~90°（93°max.）		
Rotation Direction		L/R switch		
Position Feedback		available with 2 auxiliary switches		
Life Cycle		≥30000		
Noise Level		55dB		
Working Environment				
Protection Class		II /III		
Protection Level		IP54		
Ambient Temperature		-30~+50℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
Dimension/Weight/Other				
Shaft		 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 3		
Weight		1.0Kg		
Certificate		CE、UKCA、RoHS		

EA700 Series Fast Running Damper Actuators

16Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-16D24-Q	16Nm	7s-8s	AC/DC 24V	None
EA700-16D230-Q			AC 230V	
EA700-16M24-Q			AC/DC 24V	
EA700-16D24-SQ			AC/DC 24V	Auxiliary Switches
EA700-16D230-SQ			AC 230V	
EA700-16M24-SQ			AC/DC 24V	

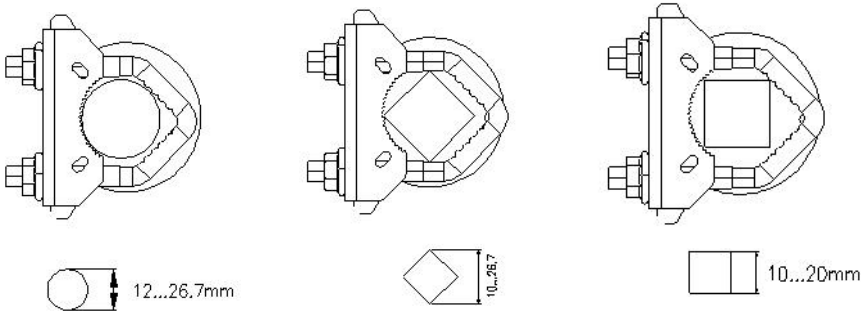


Technical Specifications

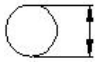
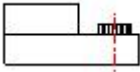
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		EA700-16D24-SQ	EA700-16D230-SQ	EA700-16M24-SQ
Electrical Parameters				
Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power	running	15W		
Consumption	holding	2W		
Cable Specification		On/Off Type: 1m cable 3*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		
General Parameters				
Torque		16Nm		
Damper Size		4m²		
Running Time		7s-8s		
Control Type		2-point/3-point		0(2)-10V or 0(4)-20mA
Rotation Angle		0~90°（93°max.）		
Rotation Direction		L/R switch		
Position Feedback		available with 2 auxiliary switches		
Life Cycle		≥30000		
Noise Level		55dB		
Working Environment				
Protection Class		II /III		
Protection Level		IP54		
Ambient Temperature		-30~+50℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
Dimension/Weight/Other				
Shaft		 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 3		
Weight		1.0Kg		
Certificate		CE、UKCA、RoHS		

EA700 Series Fast Running Damper Actuators

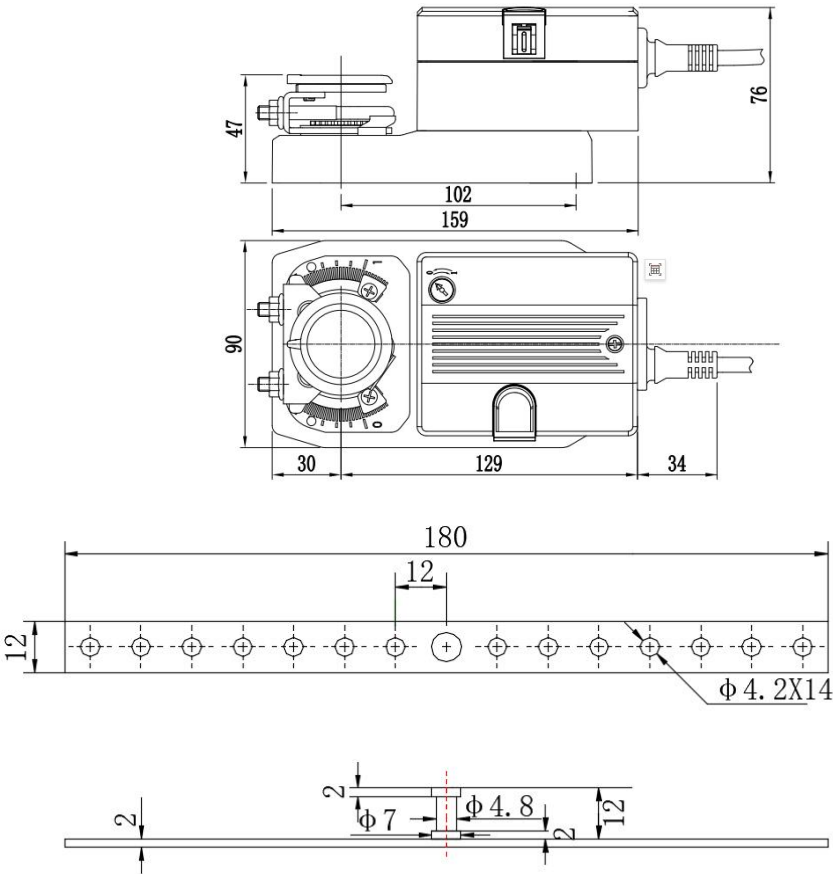
EA700-5/10/16 Shaft Dimensions



Unit: mm

Throttle Axis	Length			
	≥ 42	12.....26.7	≥ 10	≤ 26.7

EA700-5/10/16 Shape and Mounting Dimensions (mm)

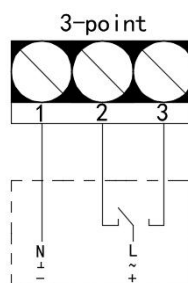
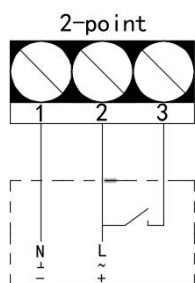
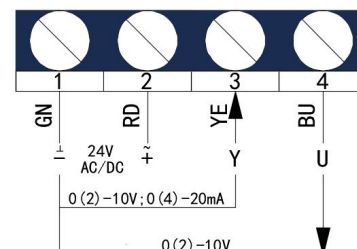


EA700 Series Damper Actuators Installation Diagram

Wiring Diagram

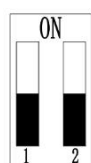
ON/OFF

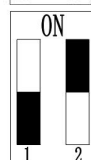
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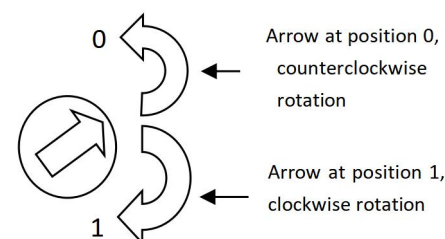

AC/DC 19.2-28.8V
AC 85-265V


Control signal and Input resistance

According to on-site needs, the position of the SW1 dial switch in the circuit board can be adjusted to achieve the conversion of control signals and feedback signals, as shown in the following figure.


Input signal: DC 0...10V
Feedback: DC 0...10V
Input resistance: Ri 150K Ω

Input signal: DC 0...20mA
Feedback: DC 0...10V
Input resistance: Ri 500 Ω

Input signal: DC 2...10V
Feedback: DC 2...10V
Input resistance: Ri 150K Ω

Input signal: DC 4...20mA
Feedback: DC 2...10V
Input resistance: Ri 500 Ω


Auxiliary Switch Description

