

Basic Non Fail-Safe actuator for controlling dampers in typical commercial HVAC applications.

- Torque motor 9 in-lb [1 Nm]
- Nominal voltage AC 100...240 V
- Control On/Off, Floating point



Piectrical data Nominal voltage AC 100240 V Nominal voltage frequency 50/60 Hz Nominal voltage range AC 85265 V Power consumption in operation 2 W Power consumption in rest position 1.5 W Transformer sizing 4.5 VA Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Molex Mini-Fit Jr. 39330335 Parallel operation Yes (note the performance data) Functional data Torque motor 9 in-lb [1 Nm] Direction of motion motor counter-clockwise rotation (ccw) Manual override No Angle of rotation 0185° Angle of rotation 0185° Angle of rotation 35 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection class IEC/EN 0, basic insulation Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-214 UL Approval UL Approval UL Secording to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-214 UL Approval UL Approval UL Secording to 2016/370-1 Type of action Type 1 Rated Impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122*F [-3050*C] Servicing maintenance-free		Picture may differ from product	
Nominal voltage frequency Nominal voltage range AC 85265 V Power consumption in operation 2 W Power consumption in operation 1.5 W Transformer sizing 4.5 VA Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Molex Mini-Fit Jr. 39303035 Parallel operation Yes (note the performance data) Functional data Torque motor Direction of motion motor Solution of counter-clockwise rotation (ccw) Manual override No Angle of rotation note Running Time (Motor) Noise level, motor 33 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection alsa IEC/EN Degree of protection IEC/EN Degree of protection IEC/EN Degree of protection IEC/EN Low voltage directive CE according to 2014/30/EU Certification IEC/EN UL Approval UL Approval CURus according to UL60730-2-14 UL Approval CURus according to UL60730-1-1 Type of action Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient tumidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]	Technical data		
Nominal voltage range AC 85265 V Power consumption in operation 2 W Power consumption in rest position 1.5 W Transformer sizing 4.5 VA Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Molex Mini-Fit Jr. 39303035 Parallel operation Yes (note the performance data) Functional data Functional data Functional data Functional data Functional function of motion motor Sounter-clockwise rotation (ccw) Manual override No Angle of rotation O185° Angle of rotation one adjustable with mechanical stop Running Time (Motor) 22 s / 90° Noise level, motor 35 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection class IEC/EN 0, basic insulation Degree of protection IEC/EN 1P20 Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CRUS according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 Type of action Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C]	Electrical data	Nominal voltage	AC 100240 V
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Power consumption in rest position Transformer sizing Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Molex Mini-Fit Jr. 39303035 Parallel operation Yes (note the performance data) Functional data Torque motor Direction of motion motor Counter-clockwise rotation (ccw) Manual override No Angle of rotation Angle of rotation note Running Time (Motor) Rechanical interface Position indication No Safety data Protection class IEC/EN Degree of protection NEMA/UL Housing UL Enclosure Type 1 EMC Cet according to 2014/30/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval UL Approval UL Approval Type of action Rated impulse voltage supply / control Pollution degree 2 Ambient Humidity Ambient Lemperature -22122°F [-3050°C] Storage temperature -22122°F [-3050°C]		Nominal voltage range	AC 85265 V
Transformer sizing 4.5 VA Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Molex Mini-Fit Jr. 39303035 Parallel operation Yes (note the performance data) Functional data Torque motor 9 in-lb [1 Nm] Direction of motion motor counter-clockwise rotation (ccw) Manual override No Angle of rotation 0185° Angle of rotation adjustable with mechanical stop Running Time (Motor) 22 s / 90° Noise level, motor 35 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection class IEC/EN 0, basic insulation Degree of protection IEC/EN 1P20 Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/30/EU Certification IEC/EN 1EC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval UR sproval 2.5 kV Pollution degree 2 Ambient temperature 2.2122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Power consumption in operation	2 W
Connection supply/control Connector Plug (Cable-side connector socket not included in scope of delivery) Connection plug Parallel operation Functional data Torque motor Direction of motion motor Counter-clockwise rotation (ccw) Manual override No Angle of rotation Angle of rotation note adjustable with mechanical stop Running Time (Motor) Desition indication Safety data Protection class IEC/EN Degree of protection IEC/EN Degree of protection IEC/EN Degree of protection IEC/EN Low voltage directive Cet according to 2014/30/EU Certification IEC/EN UL Approval UL Approval UL Approval Type of action Type 1 Rated impulse voltage supply / control Polity in Low (C) Ambient humidity Ambient humidi		Power consumption in rest position	1.5 W
Connection plug Molex Mini-Fit Jr. 39303035 Parallel operation Yes (note the performance data) Functional data Torque motor 9 in-lb [1 Nm] Direction of motion motor counter-clockwise rotation (ccw) Manual override No Angle of rotation note adjustable with mechanical stop Running Time (Motor) 22 s / 90° Noise level, motor 35 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection class IEC/EN Degree of protection IEC/EN IP20 Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN EIC/EN 60730-14 UL Approval CIRKus according to 1160730-14, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122° F [-3050° C]		Transformer sizing	4.5 VA
Functional data Functional data Torque motor Direction of motion motor Counter-clockwise rotation (ccw) Manual override No Angle of rotation Angle of rotation note Running Time (Motor) Mechanical interface Position indication No Safety data Protection class IEC/EN Degree of protection IEC/EN Low voltage directive Certification 1EC/EN Low voltage directive Certification 1EC/EN UL Approval Type of action Reted impulse voltage supply / control Rated impulse voltage supply / control Rated impulse voltage lemperature Ambient humidity Ambient temperature - 22122°F [-3050°C] 9 in-lb [1 Nm] 9 in-l		Connection supply/control	5 .
Functional data Torque motor Direction of motion motor Manual override Angle of rotation Angle of rotation note Running Time (Motor) Noise level, motor Osition indication No Safety data Protection class IEC/EN Degree of protection IEC/EN Low voltage directive Certification IEC/EN UL Approval UL Approval UL Approval Type of action Rated impulse voltage supply / control Pollution degree Ambient temperature Pince Storage temperature Pince Storage temperature Pince Counter-clockwise rotation (ccw) No Counter-clockwise rotation (ccw) Angless Protection (counter-clockwise rotation (counter-clockwise rotation (ccw) Angless Protection (counter-clockwise rotation (counters) Angless Protection (counter-clockwise rotation (counters) Angless Protection (counter-clockwise rotation (counters) Angless Protection (Connection plug	Molex Mini-Fit Jr. 39303035
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Manual override Angle of rotation O185° Angle of rotation note Running Time (Motor) Noise level, motor Osafety data Safety data Protection class IEC/EN Degree of protection NEMA/UL Housing EMC Low voltage directive Certification IEC/EN UL Approval UL Approval UL Approval Type of action Rated impulse voltage supply / control Rated impulse voltage supply / control Rated impulse voltage supply / control Angle of rotation On185° Angle of rotation On185° Angle of rotation note adjustable with mechanical stop Algustable with mechanical stop Angle of rotation Angle of rotation Angle of rotation No Safety data Protection class IEC/EN O, basic insulation O, basic insulation No NemA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval UL Approval UL Cours according to UL60730-14, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]	Functional data	Torque motor	9 in-lb [1 Nm]
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Angle of rotation note adjustable with mechanical stop Running Time (Motor) 22 s / 90° Noise level, motor 35 dB(A) Mechanical interface Universal shaft clamp 612.7 mm Position indication No Safety data Protection class IEC/EN 0, basic insulation Degree of protection IEC/EN IP20 Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22120°F [-3050°C] Storage temperature -40176°F [-4080°C]		Manual override	No
Running Time (Motor) Noise level, motor Noise level, motor Safety data Protection class IEC/EN Degree of protection IEC/EN Degree of protection NEMA/UL Housing EMC Low voltage directive Certification IEC/EN UL Approval UL Approval Type of action Type 1 Rated impulse voltage supply / control Rated impulse voltage supply / control Ambient temperature Ambient temperature Safety data Protection (Motor) 35 dB(A) Universal shaft clamp 612.7 mm No Abgala Universal shaft clamp 612.7 mm No Abgala Universal shaft clamp 612.7 mm No Abgala Universal shaft clamp 612.7 mm No Safety data Universal shaft clamp 612.7 mm No Safety data Universal shaft clamp 612.7 mm No Seach (Lamp 612.7 mm		Angle of rotation	0185°
Noise level, motor Mechanical interface Position indication No Safety data Protection class IEC/EN Degree of protection IEC/EN Degree of protection NEMA/UL Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN UL Approval UL Enclosure Type 1 EMC CUE according to 2014/35/EU Certification IEC/EN UL Approval CURus according to UL60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Angle of rotation note	adjustable with mechanical stop
Mechanical interface Position indication No Safety data Protection class IEC/EN Degree of protection IEC/EN Degree of protection NEMA/UL Housing UL Enclosure Type 1 EMC Cet according to 2014/30/EU Low voltage directive Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CuRus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Rated impulse voltage supply / control Pollution degree Ambient humidity Ambient temperature Storage temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Running Time (Motor)	22 s / 90°
Position indication No Protection class IEC/EN 0, basic insulation Degree of protection IEC/EN IP20 Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Noise level, motor	35 dB(A)
Safety data Protection class IEC/EN Degree of protection IEC/EN Degree of protection NEMA/UL Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Mechanical interface	Universal shaft clamp 612.7 mm
Degree of protection IEC/EN Degree of protection NEMA/UL NEMA 1 Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive Cetrification IEC/EN UL Approval Type of action Rated impulse voltage supply / control Pollution degree Ambient humidity Ambient temperature Du Lenclosure Type 1 REMA 1 NEMA 1 LU Lenclosure Type 1 Ed caccording to 2014/30/EU Cetrification IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type 1 Rated impulse voltage supply / control 2.5 kV Pollution degree 4 Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Position indication	No
Degree of protection NEMA/UL Housing UL Enclosure Type 1 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]	Safety data	Protection class IEC/EN	0, basic insulation
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EMC Low voltage directive CE according to 2014/30/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Degree of protection NEMA/UL	NEMA 1
Low voltage directive CE according to 2014/35/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Housing	UL Enclosure Type 1
Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval CURus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		EMC	CE according to 2014/30/EU
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Type of action Type 1 Rated impulse voltage supply / control Pollution degree 2 Ambient humidity Ambient temperature Storage temperature UL60730-2-14 and CAN/CSA E60730-1 Type 1 2.5 kV Pollution degree 2 Amax. 95% RH, non-condensing -22122°F [-3050°C]		Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Rated impulse voltage supply / control 2.5 kV Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		UL Approval	
Pollution degree 2 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Type of action	Type 1
Ambient humidity Ambient temperature Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Rated impulse voltage supply / control	2.5 kV
Ambient temperature -22122°F [-3050°C] Storage temperature -40176°F [-4080°C]		Pollution degree	2
Storage temperature -40176°F [-4080°C]		Ambient humidity	Max. 95% RH, non-condensing
		Ambient temperature	-22122°F [-3050°C]
Servicing maintenance-free		Storage temperature	-40176°F [-4080°C]
		Servicing	maintenance-free



Weight Weight []

Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- The device is not designed for applications where chemical influences (gases, fluids) are
 present or for utilization in corrosive environments in general.
- The device is considered a component and intended for installation in an equipment at the factory. The required protection against accidental contact with live parts must be provided by the damper or system manufacturer.
- · Caution: Line voltage!
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section and design, as well as the installation site and ventilation conditions, must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Simple direct mounting

The actuator is mounted directly on the damper shaft (ø6...12.7 mm) with a universal shaft clamp and then secured with the anti-rotation clip, to prevent it from rotating.

The anti-rotation clip Z-ARCM is not included in the scope of delivery.

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.

High functional reliability

The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

Restriction 3-point controller

- For applications with 3-point control (open loop), a minimum pulse length of 1 s is recommended to increase position accuracy.
- For applications with 3-point control (closed loop), a pulse length of 0.5 s is possible to reduce oscillation.

Parts included

End stop clip

Accessories

Mechanical accessories	Description	Туре
	Anti-rotation clip, Multipack 20 pcs.	Z-ARCM
	End stop clip, Multipack 20 pcs.	Z-ESCM
	Protective covering, Multipack 20 pcs.	Z-PCUM



Electrical installation



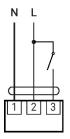
Supply from isolating transformer.

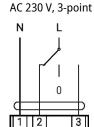
Parallel connection of other actuators possible. Observe the performance data.

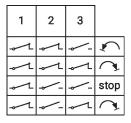
Cable-side connector socket is not included in scope of delivery

The plug connections may only be used according to the installation instructions. The Molex plug connection has a mandatory locking mechanism that prevents unintentional disconnection. Operating the locking mechanism and the entire plug connection under voltage is not permitted.

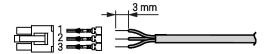
AC 230 V, on/off





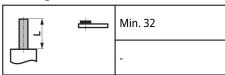


Molex PN 39014030 / 39000039 (0.5...1.0 mm²)



Dimensions





Clamping range

