

Technical data sheet

AFB24-MFT-S-X1





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V, one set at 10°, one adjustable 1090°
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 1 m, 3 m or 5 m, with or without 1/2" NPT conduit connectors
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, PWM, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Angle of rotation note	adjustable with mechanical end stop, 3595°
	Running Time (Motor)	150 s / 90°
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2



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	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	5.5 lb [2.5 kg]
Materials	Housing material	Galvanized steel and plastic housing
Footnotes	*Variable when configured with MF	T options.
ccessories		
Electrical accessories	Description	Туре
	Service tool, with ZIP-USB function, communicative Belimo actuators, V devices	for programmable and ZTH US AV controller and HVAC performance
lectrical installation		
		andling live electrical components perform these tasks.
	 Failure to follow all electrical safety could result in death or serious injuted Actuators with appliance cables are Provide overload protection and di Actuators may be connected in part observed. Actuators may also be powered by Two built-in auxiliary switches (2x Startup, etc.) Only connect common to negative A 500 Ω resistor (ZG-R01) converts Control signal may be pulsed from For triac sink the Common connect connection of the controller. Positiva actuator internal common reference IN4004 or IN4007 diode. (IN4007 s Actuators may be controlled in part Master-Slave wiring required for prinput(s) of Slave(s). Apply only AC line voltage or only U 	y precautions when exposed to live electrical components ury. e numbered. sconnect as required. allel. Power consumption and input impedance must be DC 24 V. SPDT), for end position indication, interlock control, fan (-) leg of control circuits. the 420 mA control signal to 210 V. either the Hot (Source) or Common (Sink) 24 V line. ion from the actuator must be connected to the Hot on feedback cannot be used with a triac sink controller; th



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