

Technical data sheet

AFX24-MFT-X1





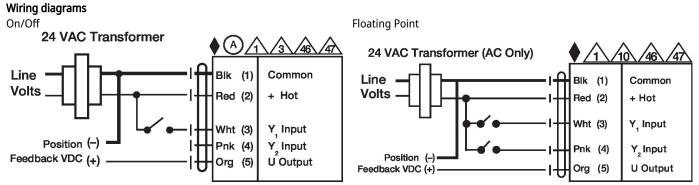


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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Electrical Connection	18 GA appliance cable, 1 m, 3 m or 5 m, with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout 095° rotation
Functional data	Torque motor	20 Nm
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	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	40 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
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU



Technical data sheet AFX24-MFT-X1 Safety data **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 -22...122°F [-30...50°C] Storage temperature -40...176°F [-40...80°C] Servicing maintenance-free Weight Weight 4.6 lb [2.1 kg] Materials Galvanized steel and plastic housing Housing material *Variable when configured with MFT options. Footnotes Accessories Description Electrical accessories Туре **ZTH US** Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices Electrical installation Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury. Meets cULus requirements without the need of an electrical ground connection. (A) Actuators with appliance cables are numbered. Provide overload protection and disconnect as required. Actuators may also be powered by DC 24 V. Only connect common to negative (-) leg of control circuits. A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V. Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line. For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible. IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155). Actuators may be controlled in parallel. Current draw and input impedance must be observed. Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).





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