

MFT/programmable, Spring return, 24 V







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, 1x 10% / 1x 1190%
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 3 ft [1 m], 10 ft [3 m] or 16 ft [5 m], with or without 1/2" NPT conduit connectors
	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



Accessories

Electrical installation

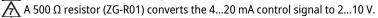
Safety data	Power source UL	Class 2 Supply
-	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in 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	5.0 lb [2.3 kg]
Materials	Housing material	Galvanized steel and plastic housing
Footnotes	*Variable when configured with MFT optic	
Electrical accessories	Description	Туре
	Service tool, with ZIP-USB function, for pro communicative Belimo actuators, VAV con devices	-
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	Warning! Live electrical components! During installation, testing, servicing and tr	

A Provide overload protection and disconnect as required.

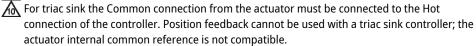
 $\overline{\mathbf{A}}$ Actuators may also be powered by DC 24 V.

Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

A Only connect common to negative (-) leg of control circuits.



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.



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).



Technical data sheet

AFX24-MFT-S-X1

Electrical installation

