

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

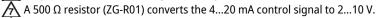
| Safety data | Power source UL | Class 2 Supply |
|------------------------|--|---|
| - | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2 |
| | Enclosure | UL Enclosure Type 2 |
| | Agency Listing | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU |
| | 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 | - |
| i . | | |
| | Warning! Live electrical components! During installation, testing, servicing and tr | |

A Provide overload protection and disconnect as required.

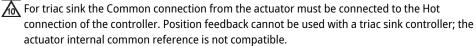
 $\overline{\mathbf{A}}$ Actuators may also be powered by DC 24 V.

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

