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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	2.5 W	
	Power consumption in rest position	1.2 W	
	Transformer sizing	5 VA	
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" NPT conduit connector (3 m and 5 m available)	
	Overload Protection	electronic throughout 095° rotation	
		<u> </u>	
Functional data	Torque motor	5 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, 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	
	Manual override	external push button	
	Angle of rotation	Max. 95°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	150 s / 90°	
	Running time motor variable	30150 s	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanical, 3065 mm stroke	
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 and 2014/35/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]	



Technical data sheet LMX24-MFT-X1

Safety data	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
Weight	Weight	1.6 lb [0.71 kg]	
Materials	Housing material	Galvanized steel and plastic housing	

Footnotes †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.

Accessories

Electrical ac

Description	Туре
Battery backup system, for non-spring return models	NSV24 US
Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
Feedback potentiometer 140 Ω add-on, grey	P140A GR
Feedback potentiometer 500 Ω add-on, grey	P500A GR
Feedback potentiometer 1 kΩ add-on, grey	P1000A GR
Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR
Feedback potentiometer 5 kΩ add-on, grey	P5000A GR
Feedback potentiometer 10 kΩ add-on, grey	P10000A GR
Auxiliary switch 1x SPDT add-on	S1A
Auxiliary switch 2x SPDT add-on	S2A
	Battery backup system, for non-spring return models Battery, 12 V, 1.2 Ah (two required) Feedback potentiometer 140 Ω add-on, grey Feedback potentiometer 500 Ω add-on, grey Feedback potentiometer 1 k Ω add-on, grey Feedback potentiometer 2.8 k Ω add-on, grey Feedback potentiometer 5 k Ω add-on, grey Feedback potentiometer 10 k Ω add-on, grey Auxiliary switch 1x SPDT add-on

Electrical installation

INSTALLATION NOTES

A Actuators with appliance cables are numbered.

1 Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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

 Λ 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.

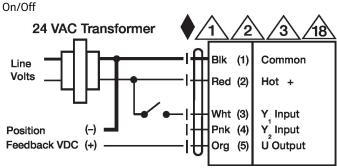
Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

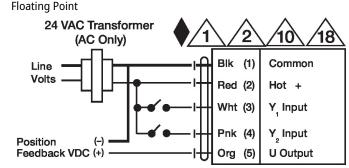
Meets cULus requirements without the need of an electrical ground connection.

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.









Control mode acc. to Y,

