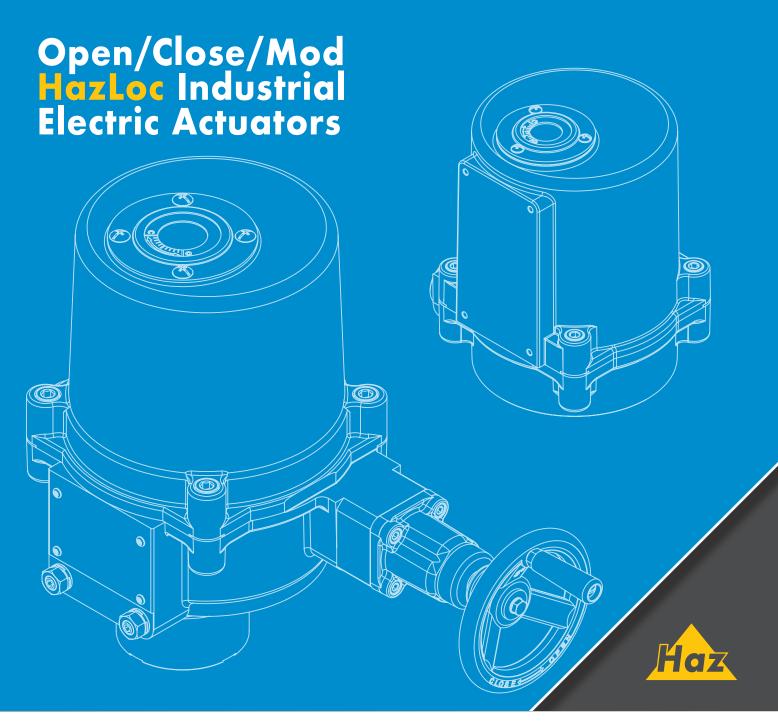


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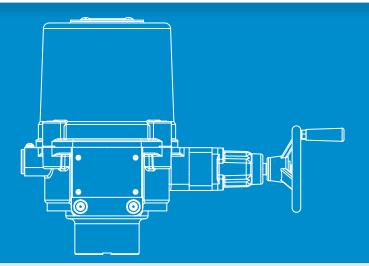
MX Series Technical Brochure

Max-Air Technology Inc. | Rotary Actuators & Valve Automation Solutions

MX Series Electric Actuators



Standard Open/Close & Modulating, for Heavy Industrial Applications.







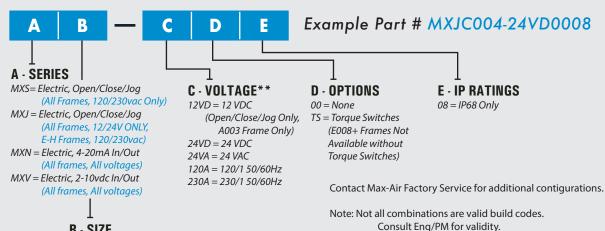






MX Series Hazardous Location industrial electric actuators comply to Class 1, Division 1, Groups C, D T4 temperature standards as well as Class 2 Division 1Groups E, F, G with T130 degree temperature standards. All units come standard with an industrial powder coated heavy duty, IP68 aluminum enclosure, torque switches, 360-degree position indicator, manual override, 2 auxiliary switches, anti-condensation heater, ISO mounting and female drive output. MX Series actuators are available in 24 VAC/VDC, 120VAC, or 230 VAC single phase. Additional voltages and customizations also available.

MX Series Part Number Builder



B - SIZE

A003 = 310 in-lbs (F03/F05, 14 DSQ)B004 = 445 in-lbs (F07,17 DSQ)C004 = 445 in-lbs (F07, 17 DSQ) E008 = 800 in-lbs (F07, 22 DSQ) E013 = 1,330 in-lbs (F07, 22 DSQ)G035 = 3,540 in-lbs (F10, 36 DSQ)G044 = 4,430 in-lbs (F10, 36 DSQ) G058 = 5,755 in-lbs (F10, 36 DSQ) H089 = 8,855 in-lbs (F12, 36 DSQ) H133 = 13,280 in-lbs (F12, 36 DSQ)

HAZARDOUS LOCATION RATING

PRODUCTS CLASS - 3228 02 VALVES-Actuators -

For Hazardous Locations

CLASS - 3228 82 VALVES-Actuators -

For Hazardous Locations-Certified to U.S. Standard

Class I, Division 1, Groups C, D T4

Class II, Division 1, Groups E, F, G T130°C

Class I, Zone 1, Ex db IIB T4 Gb (For Canada)

Class I, Zone 1, AEx db IIB T4 Gb (For US)

Ex tb IIIC T130°C Db (For Canada) -

(Zones 20, 21 or 22 not applicable in Canada)

Class II, Zone 21, AEx tb IIIC T130 C Db (For US)

Rated 240 Vac max, 10.0 A max

-30°C ≤ Tamb ≤ 70°C, T4

Enclosure Type 4X, IP68 (72h, 7m).



Max-Air Technology, Inc. 2022

R: 02/23/23

MX Series Technical Brochure

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06 - Other Brochure Links



STANDARD WARRANTY

Max-Air Technology Inc. | The Best Way to Automate Your Process

Max-Air Technology provides the following warranty regarding products manufactured by it. **THE WARRANTY STATED HEREIN IS EXPRESSLY IN LIEU**OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESSED OR IMPLIED, OR STATUTORY, INCLUDING, WITHOUT LIMITATION, THE

IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Max-Air Technology warrants its products to be free from defects in materials and
workmanship when these products are used for the purpose for which they were designed and manufactured. Max-Air Technology does not warrant its
products against chemical or stress corrosion or against any other failure other than from defects in materials or workmanship. The warranty period is for
twelve (12) months from installation date or eighteen (18) months from shipment date, whichever date comes first. Any claims regarding this warranty must
be in writing and received by Max-Air Technology before the last effective date of the warranty period. Upon Max-Air Technology's receipt of a warranty claim,
Max-Air Technology reserves the right to inspect the product(s) in question at either the field location or at the Max-Air Technology Manufacturing plant. If,
after inspection of the product(s) in question, Max-Air Technology determines that the purchaser's claim is covered by this warranty, Max-Air Technology's
sole liability and the purchaser's sole remedy under this warranty is limited to the refunding of the purchase price or repair or replacement thereof at Max-Air
Technology option. Max-Air Technology will not be liable for any repairs, labor, material or other expenses that are not specifically authorized in writing by
Max-Air Technology, and in no event shall Max-Air Technology be liable for any direct or consequential damages arising out of any defect from any cause
whatsoever. If any Max-Air Technology product is modified or altered at any location other than Max-Air Technology, said product is not covered by this
warranty. The warranty for such products shall be subject only to the warranty relief, if any, provide

Features & Benefits



Standard Open/Close & Modulating, for Hazardous Location Applications.

Hazardous Location Open/Close & Modulating Electric MX Series Hazardous Location industrial electric actuators are offered in

6 frame sizes and 10 different torque ratings providing 310 in-lbs thru 13280 in-lbs. All units comply to CSA Class 1, Division 1, Groups C, D T4 temperature standards as well as Class 2 Division 1Groups E, F, G with T130 degree temperature standards. All units come standard with an industrial powder coated heavy duty, IP68 aluminum enclosure, ISO mounting and female drive output. MX Series actuators are available in 24 VAC/VDC, 120VAC, or 230 VAC single phase. All MX Series are available in either Open / Close / Jog control or full Modulating control configuration. Torque switches are standard on all units. A 360-degree viewable position indicator, manual override, 2 auxiliary switches, and anti-condensation heater are standard on all units.











Specifications:

Locations Ordinary	Indoors/Outdoors		
Enclosure Protection	IP68 Standard; Class 1, Division 1, Groups C, DT4 temperature standards as well as Class 2 Division 1Groups E, F, G with T130 degree temperature standards (US). The units are also fully CSA rated for Class 1, Zone 1 Ex dbIIB T4 Gb (Canada) and Class 1, Zone 1 AEx db IIB T4 Gb (for US); Ex tb IIIC T130C Db Canada).		
Torque Range	310 to 13.280 in-lbs		
Materials	Aluminum w/ Polyester Powdercoat		
Ambient Temp.	-22°F to 149°F (-30°C to +65°C)		
Rotation	90 Degrees		
Voltages - Single Ph	24 vac/vdc, 120 vac, 230 vac		
Hz Rating	Dual 50/60 Hz certified		
Motor Design	Class F & H		

Duty Cycle	100% (EN 60034 / ISO 22153)
Signal Type	Open/Close/Jog or Modulating (4-20mA, 2-10V)
Mounting ISO 5211	Yes
Gears	310 & 445 in-lbs = Spur Gear, 800 in-lbs + above = Epicyclic
Back-Drive Resistance Method	High gearing ratio; Epicyclic design
Relative Humidity	Range < 95%
Condensation Protection	Heater / Thermostat Heater
Auxilliary Position Indication	SPDT Mechanical Switches (2 Auxiliary)
Manual Override	Hex Socket (310 & 445 / Handwheel 800 in-lbs +
Failsafe Battery Backup	Yes - releasing fall 2022

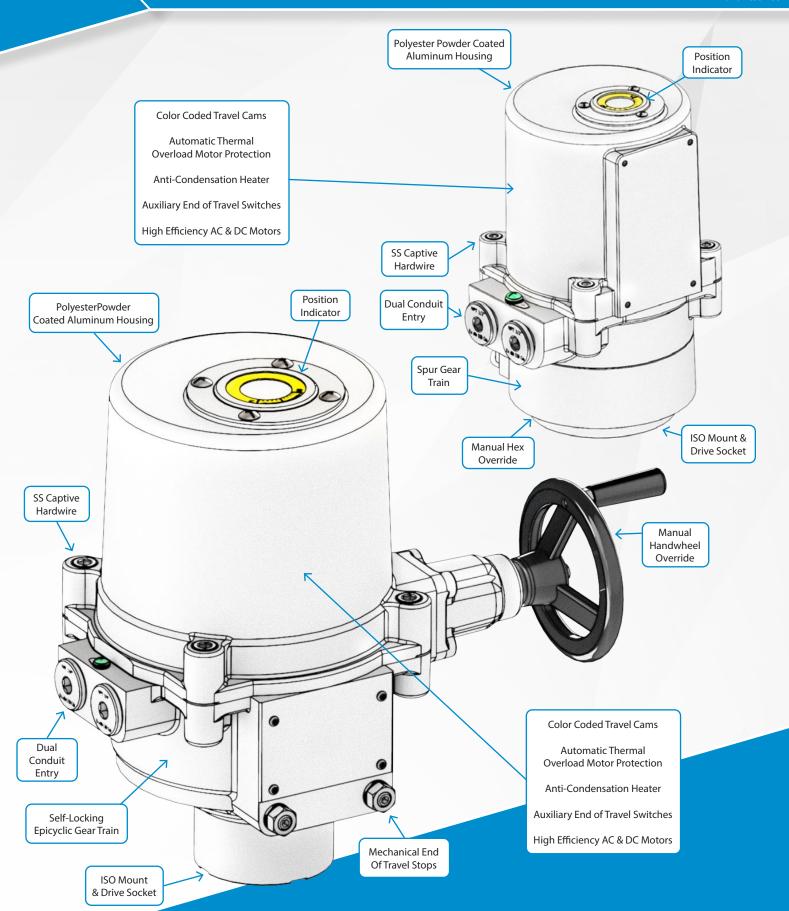
Electric Series Selection

Start work down the comparison chart to select the correct electric actuator series.			Spring Return		
Series	MA	ME	MX - HazLoc	SE	SX - HazLoc
Torque	133 to 1770 in-lbs	310 to 40,000 in-lbs	310 to 13.280 in-lbs	445 to 3518 in-lbs	445 to 2300 in-lbs
Rating	NEMA 4/4x IP67	NEMA 4/4X IP67	Class 1, Div 1, Grp. C, D T4 & Class 2 Div 1 Grp. E, F, G T130	NEMA 6/6P IP68	Class 1, Div 1, Grp. C, D T4 & Class 2 Div 1 Grp. E, F, G T130
Voltages Single Ph	24 vac/vdc, 90 to 265 vac/vdc	24 vac/vdc, 120 vac, 220 vac	24 vac/vdc, 120 vac, 220 vac	24 vac/vdc, 120 vac, 220 vac	24 vac/vdc, 120 vac, 220 vac
Voltages 3 Ph	n/a	220,380,460 vac	n/a	220,380,460 vac	220,380,460 vac
Control Type	Open/Close/Jog or Modulating (4-20mA, 2-10V)	Open/Close/Jog or Modulating (4-20mA, 2-10V)	Open/Close/Jog or Modulating (4-20mA, 2-10V)	Open/Close/Jog or Modulating (4-20mA, 2-10V)	Open/Close/Jog or Modulating (4-20mA, 2-10V)
Features & Options	Electronic Fail-Safe Digital End of Travel Setting	Submersible Torque Switches Chainwheel Override Local Control	Submersible Torque Switches Chainwheel Override	Submersible Handwheel Fail Direction (CW/CCW) Local Control	Submersible Handwheel Fail Direction (CW/CCW)

MX Series Technical Brochure



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Links for Data Sheets & Brochures

Data Sheet w/ Technical Information & Additional Max-Electric Actuator Brochures

MX Series Data Sheets

Looking for ME Series echnical info? Use the PART NUMBER BUILDER to select which data sheet is needed, then click the link!

MX Series

MX-A003

MX-B004

MX-C004

MX-E008-E013

MX-G035-G044

MX-G058

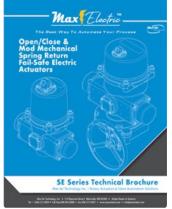
MX-H089-H133

Additional Electric Brochures

Looking for additional information on other models of Max-Electric actuators? Click the link below!









MA Series Intelligent Brochure ME Series Industrial Brochure SE Series
Spring Return
Brochure

SX Series Spring Hazloc Brochure

MX Series Technical Brochure



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Notes	

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