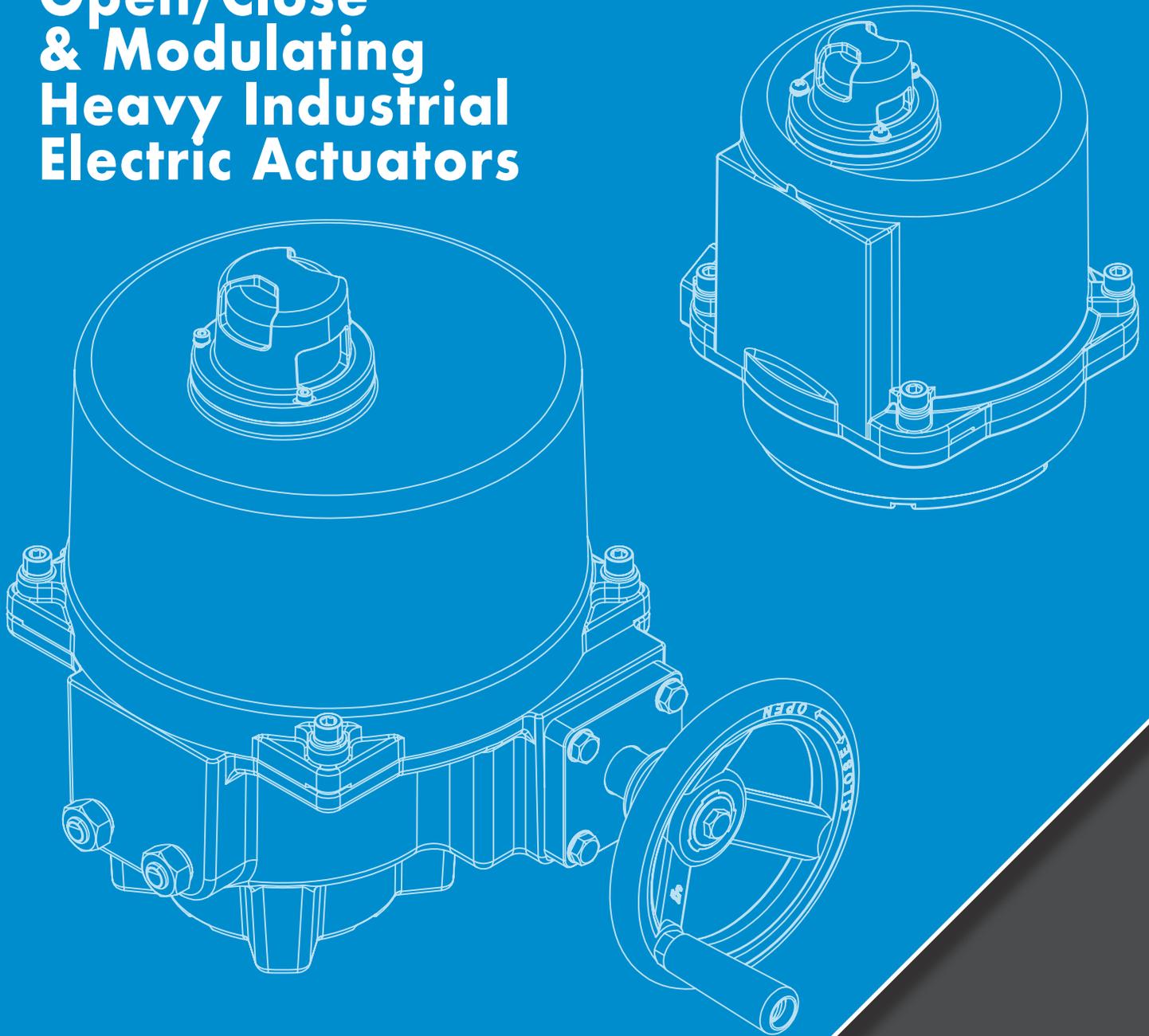




The Best Way To Automate Your Process



Open/Close & Modulating Heavy Industrial Electric Actuators

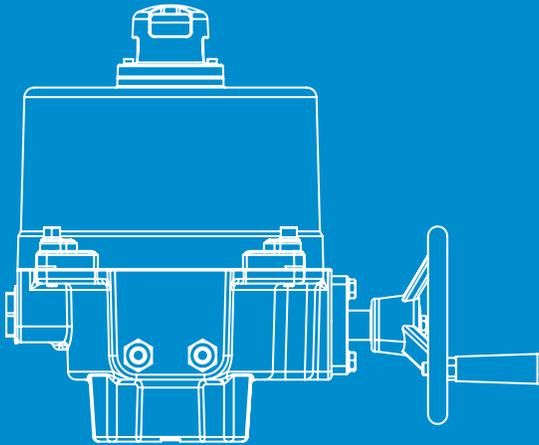


ME Series Technical Brochure

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

ME Series Electric Actuators

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



ME Series industrial electric actuators come standard with a heavy duty, NEMA 4/4X/IP67 aluminum enclosure, 3D position indicator, auxiliary limit switches, and internal heater. ME Series actuators are available in 12 VAC/VDC, 24 VAC/VDC, 120VAC, or 230VAC models; these are also offered in complete 3 phase configurations with and without motor control centers. Units are available in either Open / Close / Jog control, as well as full Modulating control configuration (optionally 3 position, SCADA, and various other control and operating options. Additional voltages and customizations also available.

ME Series Part Number Builder

A | **B** — **C** | **D** | **E** Example Part # **MENE008-120ATSL7**

A - SERIES

MEJ = Electric, Open/Close/Jog
(ABC frames 12/24V)

MES = Electric, Open/Close/Jog
(ABC frames 120/230VAC)
(All E-K frames all voltages incl 3ph)

MEN = Electric, 4-20mA In/Out
(All frames in 24/120/230)

MEM = Electric, 4-20mA In/Out
(All E-K frames in 3 ph use MEM)

MEV = Electric, 2-10vdc In/Out
(All frames in 24/120/230)

MEW = Electric, 2-10vdc In/Out
(All E-K frames in 3 ph use MEW)

B - SIZE

A003 = 310 in-lbs (F03/F05, 14 DSQ)
 B004 = 445 in-lbs (F05/F07, 17 DSQ)
 C004 = 445 in-lbs (F05/07, 17 DSQ)
 E008 = 800 in-lbs (F07/F10, 22 DSQ)
 E013 = 1,330 in-lbs (F07/F10, 22 DSQ)
 G035 = 3,540 in-lbs (F10/F12, 36 DSQ)
 G044 = 4,430 in-lbs (F10/F12, 36 DSQ)
 G058 = 5,755 in-lbs (F10/F12, 36 DSQ)
 H089 = 8,855 in-lbs (F12, 36 DSQ)
 H133 = 13,280 in-lbs (F14, 36 DSQ)
 J177 = 17,710 in-lbs (F14, 75mm x 12mm keys)
 J221 = 22,140 in-lbs (F16, 75mm x 12mm keys)
 J266 = 26,565 in-lbs (F16, 75mm x 12mm keys)
 J310 = 31,000 in-lbs (F16, 75mm x 12mm keys)
 K400 = 40,000 in-lbs (F16/25, 72mm x 20mm keys)

C - VOLTAGE**

12AD = 12 VAC/VDC
(Open/Close Only,
A003 - J177 Only)

24AD = 24 VAC/VDC
(A003 - J310 Only)

120A = 120/1 50/60Hz
 230A = 230/1 50/60Hz

3PH VOLTAGE OPTIONS
(Frames E through K Only)

2203 = 220/3/50/60Hz
 3803 = 380/3/50/60Hz
 4603 = 460/3/50/60Hz

D - OPTIONS

00 = None
 TS = Torque Switches
(E008+ Frames Only)

E - LCS OPTIONS & IP RATINGS

07 = IP67 (No LCS)
 08 = IP68 **Submersible** (No LCS)
 B7 = IP67 LCS (ABC Frames Only)
 B8 = IP68 **Submersible** LCS (ABC Frames Only)
 L7 = IP67 LCS (E-K Frames Only)
 L8 = IP68 **Submersible** LCS (E-K Frames Only)

D & E - 3PH LCS, MCC OPTIONS & IP RATINGS

LEVEL 3

..... TM37 = TS Reversing, Full MCC, IP67
 TM38 = TS Reversing, Full MCC, IP68 **Submersible**

LEVEL 6

..... TM67 = TS Reversing + LCS, Full MCC, IP67
 TM68 = TS Reversing + LCS, Full MCC, IP68 **Submersible**

Note: All 3 phase actuators have torque switches.

** Note: All ME Series 12VDC & 24VDC actuators are Industry-Standard POSITIVE SWITCHING logic.

ME Series Technical Brochure

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



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Table of Contents

Pg - Description

[*02 - Part Number Builder*](#)

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[*04 - Features & Benefits*](#)

[*06 - Data Sheet Links*](#)

[*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 – St. Louis (Missouri) UNITED STATES or Max-Air Technology – Agrate Brianza (MB) ITALY without the express written authorization of 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, provided by the suppliers and/or manufacturers of such products.

Features & Benefits

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

Heavy Industrial Open/Close & Modulating Electric

ME Series industrial electric actuators are offered in 8 frame sizes and 15 different torque ratings providing 310 in-lbs thru 40,000 in-lbs. All units come standard with an industrial powder coated heavy duty, NEMA 4/4X/IP67 aluminum enclosure, ISO mounting and female drive output. ME Series actuators are available in 12 VAC/VDC, 24 VAC/VDC, 120VAC, or 230 VAC models; these are also offered in complete 3 phase configurations with and without motor control centers. All ME Series are available in either Open / Close / Jog control, as well as full Modulating control configuration (optionally 3 position, SCADA, and various other control and operating options are available to meet the most demanding of application requirements). Torque switches are available as an option. A complete array of local control operators are available; these will provide local or remote operation with full control and status indication to the control system. A 360-degree viewable raised position indicator, manual override, 2 auxiliary switches, and anti-condensation heater are standard on all units. The units are optionally available in NEMA6P/IP68 for submersion rated applications.



Specifications:

Locations Ordinary	Indoors/Outdoors
Enclosure Protection	Rating IP67 , NEMA 4/4X (IP68/ NEMA6/6P Option)
Torque Range	310 to 40,000 in-lbs
Materials	Aluminum w/ Polyester Powdercoat
Ambient Temp.	-22°F to 149°F (-30°C to +65°C)
Rotation	90 Degrees / (180 Degrees Optional)
Voltages - Single Ph	24 vac/vdc, 120 vac, 230 vac
Voltages - 3 Ph	220,380,460 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
Auxiliary Position Indication	SPDT Mechanical Switches (2 Auxiliary)
Manual Override	Hex Socket / Handwheel
Failsafe Battery Backup	Yes - releasing fall 2022

Electric Series Selection

Start work down the comparison chart to select the correct electric actuator series.

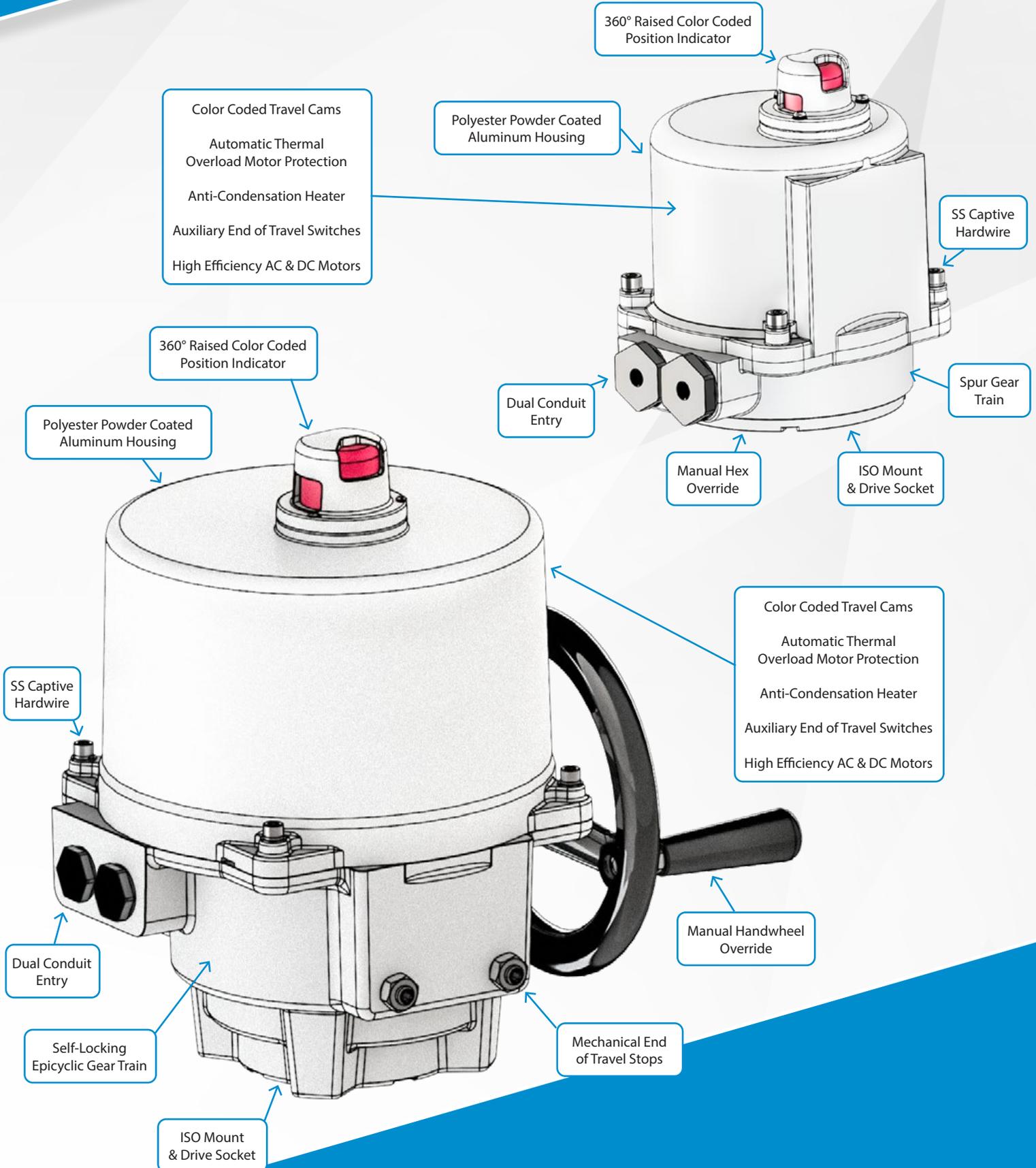
Series	Spring Return				
	MA	ME	MX - HazLoc	SE	SX - HazLoc
Torque	133 to 1770 in-lbs	310 to 40,000 in-lbs	310 to 13,280 in-lbs	445 to 3518 in-lbs	445 to 2300 in-lbs
Rating	NEMA 4/4x IP67	NEMA 4/4X IP67	Class 1, Div 1, Grp. C, D T4 & Class 2 Div 1 Grp. E, F, G T130	NEMA 6/6P IP68	Class 1, Div 1, Grp. 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)

ME Series Technical Brochure

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



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Links for Data Sheets & Brochures

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

ME 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!

ME Series

[ME-A003](#)
[ME-B004](#)
[ME-C004](#)
[ME-E008-E013](#)
[ME-G035-G044](#)
[ME-G058](#)
[ME-H089-H133](#)
[ME-J177-J221](#)
[ME-J266-J310](#)
[ME-K400](#)

ME Series 3ph

[ME-E008-E013-3ph](#)
[ME-G035-G044-3ph](#)
[ME-G058-3ph](#)

[ME-H089-H133-3ph](#)
[ME-J177-J221-3ph](#)
[ME-J266-J310-3ph](#)
[ME-K400-3ph](#)

ME Series LCU

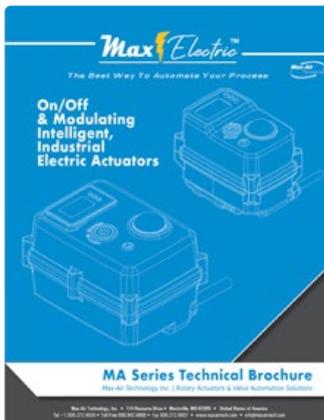
[ME-A003-LCU](#)
[ME-B004-LCU](#)
[ME-C004-LCU](#)
[ME-E008-E013-LCU](#)
[ME-G035-G044-LCU](#)
[ME-G058-LCU](#)
[ME-H089-H133-LCU](#)
[ME-J177-J221-LCU](#)
[ME-J266-J310-LCU](#)
[ME-K400-LCU](#)

ME Series LCU 3ph

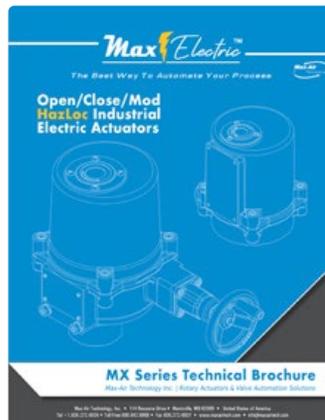
[ME-E008-E013-3ph-LCU](#)
[ME-G035-G044-3ph-LCU](#)
[ME-G058-3ph-LCU](#)
[ME-H089-H133-3ph-LCU](#)
[ME-J177-J221-3ph-LCU](#)
[ME-J266-J310-3ph-LCU](#)
[ME-K400-3ph-LCU](#)

Additional Electric Brochures

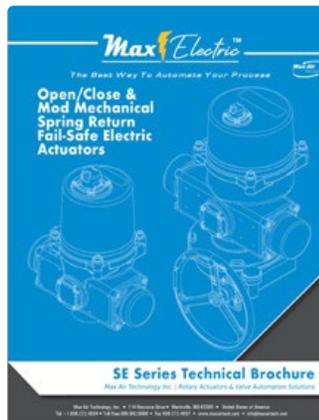
Looking for additional information on other models of Max-Electric actuators? Click the link below!



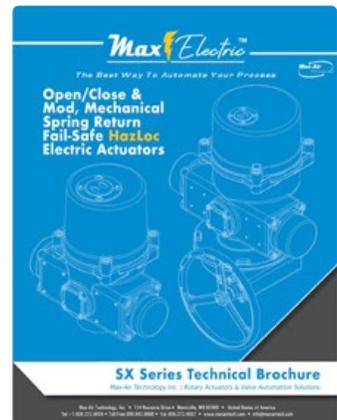
**MA Series
Intelligent
Brochure**



**MX Series
Industrial Hazloc
Brochure**



**SE Series
Spring Return
Brochure**



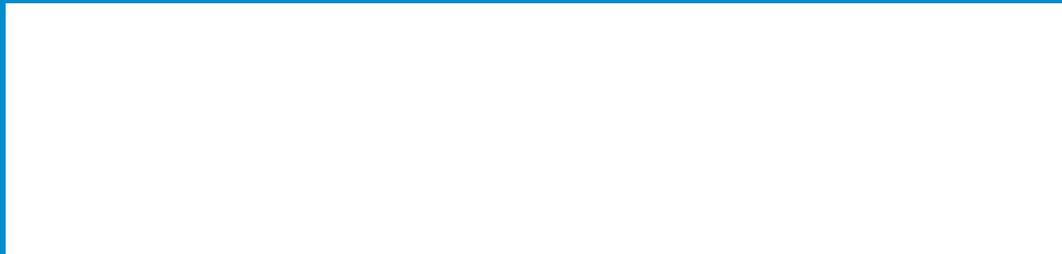
**SX Series
Spring Hazloc
Brochure**

MAX-AIR TECHNOLOGY

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Your nearest Max-Air dealer can be found at:



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