

# ME J177~J221 LCU L | Open/Close/Jog/Mod

Overview, Specifications, Dimensional Data, Materials of Construction, Wiring Diagrams

Max Air Electric™

Max-Air  
TECHNOLOGY

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Website

## ME J177~J221 LCU L Series Open/Close/Jog/Modulating



## Overview

The ME J177~J221 LCU L Series are quarter-turn electric industrial service actuators delivering up to 22140 in-lbs torque in voltages ranging from 12vdc up through 480v, and available in 2 position (Open/Close), Floating (Open/Close/Jog) or Modulating (4-20mA default or 2-10vdc) control schemes. Units are equipped with a Local Control Unit (LCU) Knob/Knob Type with Open, Closed & Power indicators, Remote Mode Status Output, and Fault Mode Status Output, to facilitate HOA operation at the actuator. (2) Form C auxiliary switches and an internal anti-condensate heater are standard. Key features include:

- 12v & 24v models operate on AC or DC power supplies.
- 120vac & 230vac models operate on 50 or 60Hz supplies.
- 3D Raised Position indicator
- ISO5211 compliant mounting with round double-key socket
- Clutch-free manual override handwheel standard
- Local Control Stations
- Torque Switches

## Options

- IP68 Submersion
- Battery Backup
- Chain Wheel Override
- Manual Override Lockout

## Specifications

|        |                                         | ME J177 LCU L                                        | ME J221 LCU L                           |
|--------|-----------------------------------------|------------------------------------------------------|-----------------------------------------|
| Supply | Torque Output (in-lb / Nm)              | 17710 in-lb / 2000Nm                                 | 22140 in-lb / 2500Nm                    |
| 12V    | Starting Current - DC Amps              | 68.0A                                                | N/A                                     |
|        | Running Current - DC Amps               | 26.1A                                                | N/A                                     |
|        | Speed (90°) @DC, seconds @ rated load   | 56 sec                                               | N/A                                     |
|        | Motor, Voltage, Type, Class             | 12VDC 2-Pole Brush, Class F                          | N/A                                     |
|        | Motor Power                             | 180W                                                 | N/A                                     |
|        | Duty Cycle                              | 100% (EN 60034) / Class A/B/C (ISO 22153)            |                                         |
| 24V    | Starting Current - DC Amps              | 17.0A                                                | 17.0A                                   |
|        | Running Current - DC Amps               | 9.0A                                                 | 11.5A                                   |
|        | Speed (90°) @DC, seconds @ rated load   | 77 sec                                               | 84 sec                                  |
|        | Motor, Voltage, Type, Class             | 24VDC 2-Pole Brush, Class F                          | 24VDC 2-Pole Brush, Class F             |
|        | Motor Power                             | 180W                                                 | 180W                                    |
|        | Duty Cycle                              | 100% (EN 60034) / Class A/B/C (ISO 22153)            |                                         |
| 120V   | Starting Current - AC Amps              | 12.0A                                                | 12.0A                                   |
|        | Running Current - AC Amps               | 3.0A                                                 | 3.2A                                    |
|        | Speed (90°) @60Hz, seconds @ rated load | 62 sec                                               | 62 sec                                  |
|        | Motor, Voltage, Type, Class             | 120VAC Split-Phase Cap Run TENV Class F              | 120VAC Split-Phase Cap Run TENV Class F |
|        | Motor Power                             | 180W                                                 | 180W                                    |
|        | Duty Cycle                              | 100% (EN 60034) / Class A/B/C (ISO 22153)            |                                         |
| 230V   | Starting Current - AC Amps              | 7.0A                                                 | 7.0A                                    |
|        | Running Current - AC Amps               | 2.5A                                                 | 2.6A                                    |
|        | Speed (90°) @60Hz, seconds @ rated load | 62 sec                                               | 62 sec                                  |
|        | Motor, Voltage, Type, Class             | 230VAC Split-Phase Cap Run TENV Class F              | 120VAC Split-Phase Cap Run TENV Class F |
|        | Motor Power                             | 180W                                                 | 180W                                    |
|        | Duty Cycle                              | 100% (EN 60034) / Class A/B/C (ISO 22153)            |                                         |
| ALL    | Environmental Rating                    | NEMA 4/4X & IP67                                     |                                         |
|        | Electrical Entry                        | 3/4" EMT x 2                                         |                                         |
|        | Control                                 | Open/Close/Jog, Modulating                           |                                         |
|        | Auxiliary Switch - End of Travel        | (2) Form C Volt-Free, Rated 10A @ 250vac, 5A @ 30VDC |                                         |
|        | Ambient Operating Range                 | -22°F~+149°F (-30°C~+65°C)                           |                                         |
|        | Humidity Range                          | 0-95% RH                                             |                                         |
|        | Altitude Limit                          | 9850 ft / 3000 m                                     |                                         |
|        | Weight (kg / lbs)                       | 74 kg / 163 lbs                                      |                                         |

\* All Amperage and speed specifications based on Open/Close Standard Duty motors @ 40°C ambient.

\*\* Refer to 3 phase data sheets for 3 phase power.

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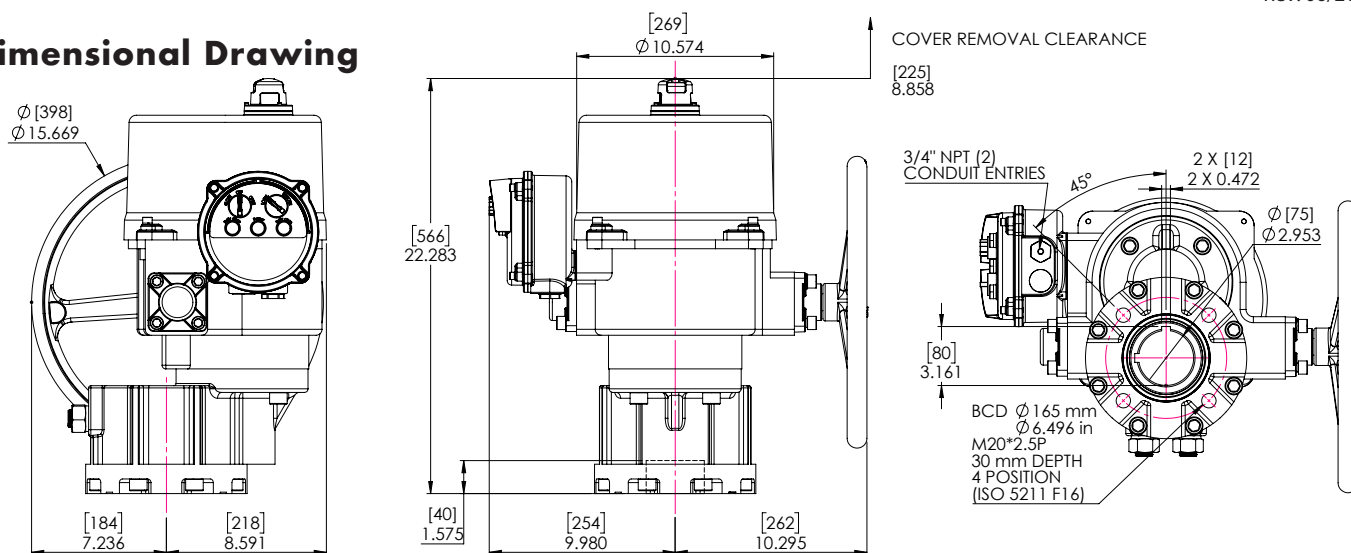
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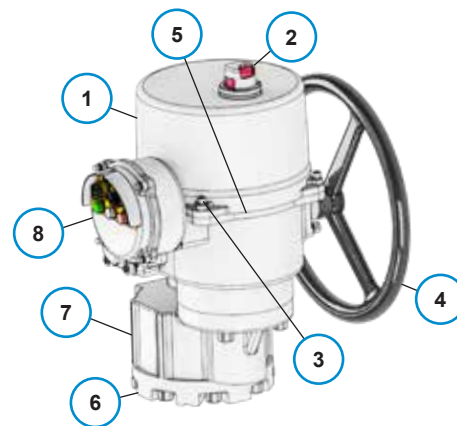


## Dimensional Drawing



## Materials of Construction

| # | DESCRIPTION               | MATERIALS                                              |
|---|---------------------------|--------------------------------------------------------|
| 1 | IP67 Actuator Housing     | ADC3 Aluminum Alloy                                    |
| 2 | Indicator                 | ADC10 Cast Aluminum Shield<br>Over Clear Polycarbonate |
| 3 | Captured Cover Screw      | SUS304 Stainless Steel (Qty. 4)                        |
| 4 | Manual Override Handwheel | Aluminum Epoxy Coated                                  |
| 5 | IP67 Cover Seal           | NBR O-Ring                                             |
| 6 | Main Output Gear          | FCD60 Graphite Iron Casting                            |
| 7 | Mechanical Stop Screws    | SUS304 Stainless Steel (Qty. 2)                        |
| 8 | IP67 Local Control Unit   | ADC3 Aluminum Alloy                                    |



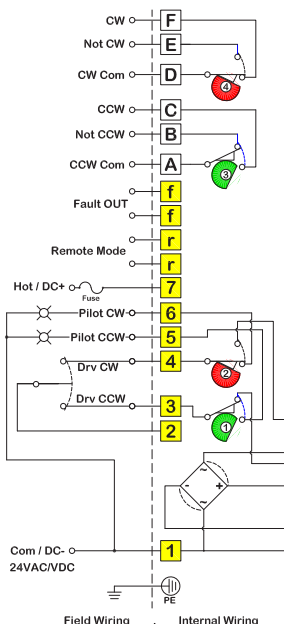
## Wiring Diagrams

Typical wiring diagram shown.

Max-Air reserves the right to change specifications through a continuous-improvement program.

Contact Max-Air for product specific wiring diagrams prior to engineering or installation efforts.

Open/Close/Jog



Modulating

