

ME J177~J221 | Open/Close/Jog/Mod

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

Max Air Electric™

Max-Air
TECHNOLOGY

Rev: 06/21/22



Website

ME J177~J221 Series Open/Close/Jog/Modulating



Overview

The ME J177~J221 Series are quarter-turn electric industrial service actuators delivering up to 22140 in-lbs torque in voltages ranging from 12vdc up through 480/3ph, and available in 2 position (Open/Close), Floating (Open/Close/Jog) or Modulating (4-20mA default or 2-10vdc) control schemes. Easy access mechanical travel stops. (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
- Torque Switches

Options

- Local Control Stations
- IP68 Submersion
- Battery Backup
- Chain Wheel Override
- Manual Override Lockout

Specifications

		ME J177	ME J221
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, Modulating, 2 Position, 3 Position	
	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)	71 kg / 156.2 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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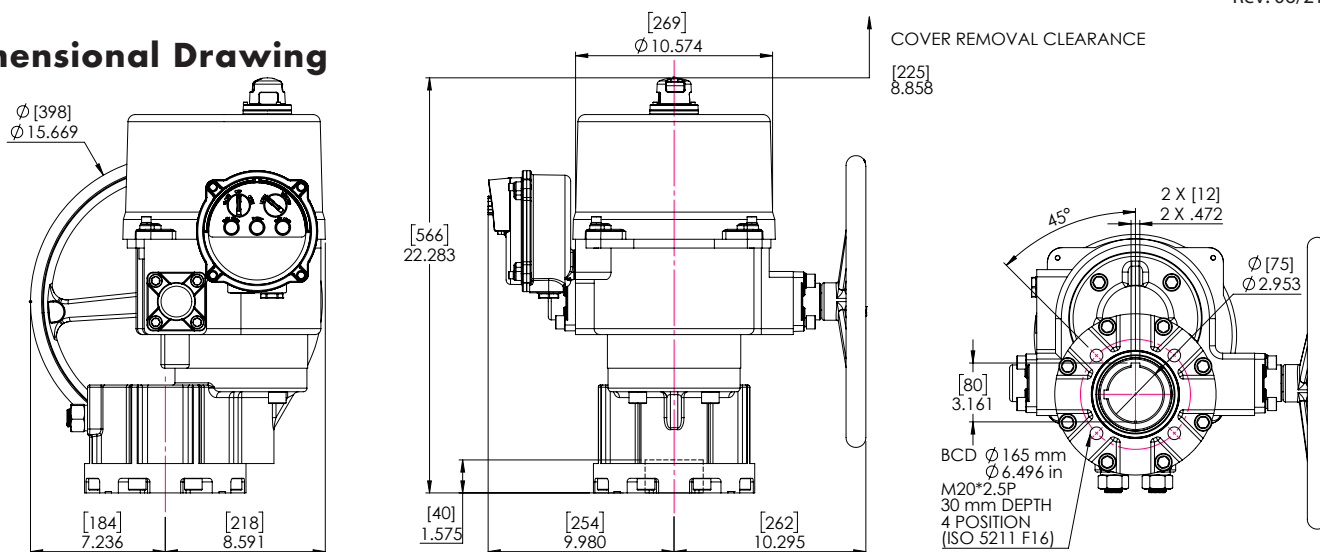
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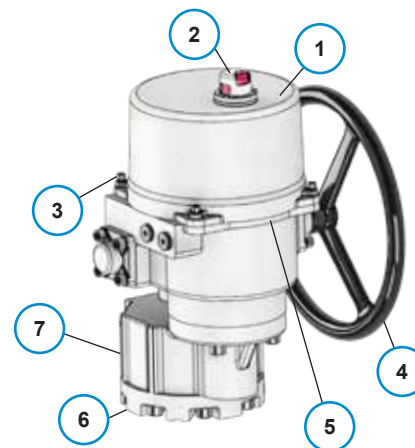


Dimensional Drawing



Materials of Construction

#	DESCRIPTION	MATERIALS
1	IP67 Actuator Housing	ADC3 Aluminum Alloy
2	Indicator	ADC10 Cast Aluminum Shield 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)



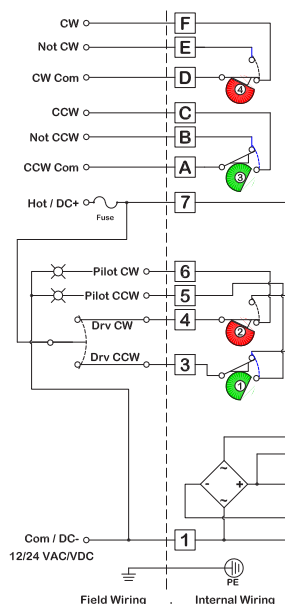
Wiring Diagrams

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

