



MACTROL-REFU AC SERVO DRIVE

MR-EcoS-220 AC Servo Drive (17 bit)



MR-EcoS-220 series synchronous AC servo drive is designed and manufactured, employing the advanced control algorithm based on the market demand, which can realize speed and accurate position digital control. With intelligent power module (IPM) and other latest technology design it is simple to operate, highly reliable, small in size and easy to install.

MR-EcoS-220 servo drive could be used in various industries thanks to the perfect response feature and stability. It can work for plenty of applications like Lathe/Milling machine, Sealing machine, Feeding machine, Packaging and printing machine, Carving machine, High-speed winding machine, Cutting applications replace stepper motor and Textile equipment.

Features:

- Wide Speed Range: up to 3000rpm
- Strong Overload feature: three times of rated torque.
- High dynamic feature: Velocity loop bandwidth up to 300Hz, small speed.
- Various I/O functions: Opto-coupler isolation and programmable functions.
- Three control mode: position / speed / torque
- Three kinds of pulse and analog command input
- Various protection functions
- 0.4 (1.27Nm) to 1.5KW (10Nm) power range
- 17 Bit magnetic encoder, best cost- performance in the market. More encoder type can be customized.
- Ambient operating Temperature: - 20°~+50°C
- Ambient operating Humidity: Below 90% RH No dewing
- Compact architecture and high-power density High Response & Accuracy.
- Super high coercivity rare earth permanent magnet Low Noise & Low Temperature Rise.
- Overheat protection capability (temperature sensor integrated) Strong anti-demagnetization capability.
- Various frame installation size
- Full-closed design in IP65 Enclosure for Motor
- Compact size, high speed & high torque with high dynamic response feature.
- Employed shift current of D-P axis control, improved torque control accuracy up to 2%.
- Flexible customization is available.
- Thermal Protection: Optional
- Cooling Method: Air cooling
- Modbus RTU over RS485 communication.

Specifications:

Code	Motor model	Power (kw)	Torque (Nm)	Rated Speed (rpm)	Rated Current (A)	Rated Voltage (V)
523	80F-2-1.3NM-3000-17Bit	0.4	1.27	3000	2.93	220
525	80F-2-1.9NM-3000-17Bit	0.6	1.9	3000	3.5	220
533	80F-2-2D4NM-3000-17Bit	0.75	2.39	3000	3.8	220
535	80F-2-3D3NM-3000-17Bit	1	3.3	3000	4.5	220
561	130F-2-004NM-2500-17Bit	1	4	2500	4	220
567	130F-2-006NM-2500-17Bit	1.5	6	2500	6	220
570	130F-2-7D7NM-2500-17Bit	2	7.7	2500	7.5	220
573	130F-2-010NM-1500-17Bit	1.5	10	1500	6	220