

AC SERVO MOTOR & DRIVE

MAC-EcoSM-220 AC Servo Motors & Drives /
MAC-EcoSM-400 AC Servo Motors & Drives



- Wide Speed Range: 0.1 to 5000rpm
- Rated Voltage: 220V
- Strong Overload feature: three times of rated torque.
- Insulation Class: Class B
- Ambient operating Temperature: - 20°~ + 50°C
- Ambient operating Humidity: Below 90% RH No dewing
- 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
- 0.2 to 22 KW power range
- 2500 PPR encoder, best cost- performance in market.
- 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.
- 2500 PPR encoder/ resolver, 17bit encoder are available to adapt different applications.
- 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

Mactrol-Refu 415V range of AC Servo Drives & motors available up to 7.5kw as standard & up to 22kW

Model	Rated torque N.m	Max. torque N.m	Rated Speed rpm	Max Speed rpm	Rated Power Kw	Rated Voltage Vac	Rated current A	Rotor inertia kg./cm ²	Pole Pair	Weight kg	Length mm
Frame Size 60											
60F-2-1D3NM-3000	1.27	3.8	3000		0.4	220	2.8	0.302* 10- 4	4	1.9	131
60F-2-1D9NM-3000	1.91	5.73	3000		0.6	220	3.5	0.438* 10- 4	4	2.2	154
Frame Size 80											
80F-2-2D4NM-3000	2.4	7.2	3000		0.75	220	4.2	1.2* 10- 4	4	3.2	160
80F-2-3D3NM-3000	3.3	9.9	3000		1	220	4.5	1.58* 10- 4	4	3.9	181
Frame Size 130											
130F-2-05NM-2500	5	15	2500		1.3	220	5	1.333* 10- 3	4	7.3	173
130F-2-06NM-2500	6	18	2500		1.5	220	6	1.544* 10- 3	4	8	183
130F-2-7D7NM-2500	7.7	23.1	2500		1.6	220	6	2.017* 10- 3	4	9.2	197
130F-2-10NM-2500	10	30	2500		2.6	220	10	2.595* 10- 3	4	10.8	218
130F-2-15NM-1500	15	45	1500		2.3	220	9.5	3.24* 10- 3	4	14.4	263
Frame Size 150											
150F-2-18NM-2000	18	54	2000		3.6	220	16.5	6.33* 10- 3	4	21.2	250
150F-2-23NM-2000	23	69	2000		4.7	220	20.5	8.94* 10- 3	4	24.2	280
150F-2-27NM-2000	27	81	2000		5.5	220	20.5	11.19* 10- 3	4	27.2	306
Frame Size 180											
180F-2-19NM-1500	19	47	1500		3	220	12	3.8* 10- 3	4	20.5	232
180F-2-27NM-1500	27	67	1500		4.3	220	16	6.1* 10- 3	4	25.5	262
180F-2-35NM-1500	35	70	1500		5.5	220	24	8.6* 10- 3	4	30.5	292
180F-2-48NM-1500	48	96	1500		7.5	220	32	9.5* 10- 3	4	40	346

