




Servo Motor Product Matrix

Motor Family	FM Motors p. 230 	NT Motors p. 240 
AC Supply Voltage	115/230/460	115/230
Frame	55 mm, 75 mm, 95 mm, 115 mm, 142 mm, 190 mm, 250 mm	2", 3"
Flange	IEC (options available)	IEC, NEMA
Continuous Torque	Up to 647 lb-in (73.2 Nm)	Up to 52 lb-in (14 Nm)
Peak Torque	Up to 1938 lb-in (219 Nm) High Peak Torque option available (~5x continuous)	Up to 123.9 lb-in (13.1 Nm)
Standard Rated Speeds	2000, 3000, 4000, 6000 rpm	3000, 4000, 5000 rpm
Brake options	Holding brake High energy dissipation	Holding brake
Connector options	Circular style frame mounted 90 degree rotatable standard Optional 90 degree fixed, vertical, or mixed	MS style frame mounted, MS Style on 40" lead, Flying leads, Drive connector terminated leads (20ft. Max.)
Inertia	Medium (High inertia option)	Low, Medium
Encoder resolutions	4096 line count standard (2048 55 mm), up to 16 million line count optional Sin/Cos	2048 line count
Feedback options	Incremental encoders, Optical Sin/Cos single & multi-turn, Inductive Sin/Cos single & multi turn, Resolver	Incremental only
Insulation Class	Class F, EN 60034-18	Class F, EN 60034-1
Thermal Protection	PTC Thermistor, 145°C switch PTC Thermistor, 150°C switch on 055 motors	Thermostat, 155°C switch
Ingress Protection	IP65	IP65
Approvals	CE, UL	CE, UL (RoHS optional)

* Lead times vary with some non-standard options

** See XV motor IP rating specifications

Motor Family	XV Motors p. 245 	MG Motors p. 248 	MH Motors p. 251 
AC Supply Voltage	115/230	115/230	460
Frame	40 mm, 60 mm, 80 mm, 130 mm	2", 3", 4"	3", 4", 6", 8"
Flange	Metric	NEMA, IEC	NEMA, IEC
Continuous Torque	Up to 101 lb-in (11.4 Nm)	Up to 163 lb-in (18.4 Nm)	Up to 748 lb-in (84.5 Nm)
Peak Torque	up to 301 lb-in (34 Nm)	Up to 382 lb-in (43.2 Nm)	Up to 1500 lb-in (170 Nm)
Standard Rated Speeds	2000, 3000, 5000 rpm	3000, 4000, 5000 rpm	2500, 3000, 4000 rpm
Brake options	Holding brake	Holding brake	Holding brake
Connector options	AMP Mat-n-Loc on 1ft. Lead (40-80 mm), MS style frame mounted (130 mm)	MS style frame mounted	MS Style frame mounted
Inertia	Low, Medium	Low	Low
Encoder resolutions	2048 line count	2048 line count	2048 line count
Feedback options	Incremental only	Incremental only	Incremental only
Insulation Class	Class H, BS EN 60034-1	Class F, EN 60034-1	Class F (H 8"), EN 60034-1
Thermal Protection	Drive Algorithm	Thermostat, 155°C switch	Thermostat, 155°C switch
Ingress Protection	IP55, IP65**	IP65	IP65
Approvals	CE, UL, RoHS	CE, UL	CE, UL

* Lead times vary with some non-standard options

** See XV motor IP rating specifications