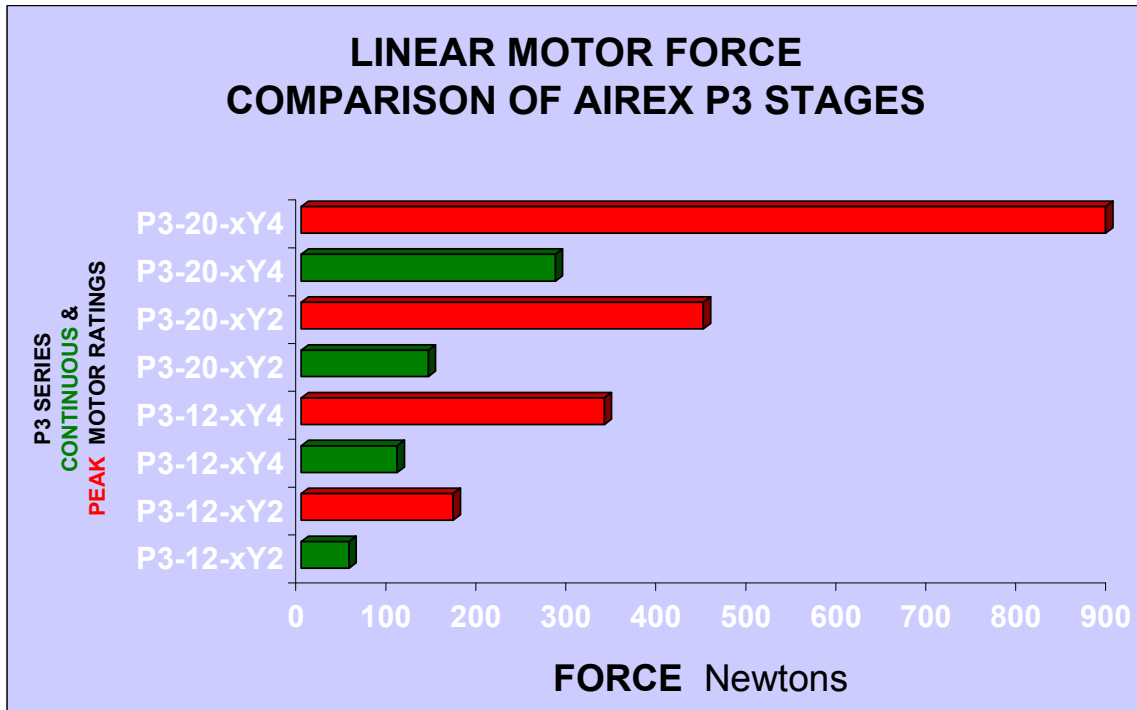


LINEAR MOTOR POSITIONING STAGE FORCE & MOTOR RATINGS



MOTOR SPECIFICATION ↓	→MODEL→	P3-12-PY2	P3-12-PY4	P3-20-DY2	P3-20-DY4
Force Constant N/amp (lbf/amp)		14.5 (3.3)	29.1 (6.5)	18.1 (4.1)	36.3 (8.2)
Phase Resistance (Wye @ 25 °C) Ω		8.53	17.06	1.94	3.88
Phase Resistance (Wye @ 125 °C) Ω		13.23	26.45	2.69	5.38
Inductance @ 1kHz mH		1.9	3.8	0.7	1.3
Continuous Force N (lbf)		53.3 (12)	106.7 (24)	141.3 (31.8)	282.6 (63.5)
Continuous Current amp		3.67	3.67	7.79	7.79
Continuous Power (@ 125 °C) watt		178	357	163	327
Peak Force* N (lbf)		169 (38)	337 (76)	447 (100)	894 (201)
Peak Current* amp		11.61	11.61	24.64	24.64
Peak Power (@ 125 °C, 10% Duty Cycle) watt		1783	3567	1633	3265
Back EMF Constant V/m/s (V/in/s)		14.5 (0.4)	29.1 (0.7)	18.1 (0.5)	36.3 (0.9)
Electrical Time Constant (@ 25 °C) ms		0.22	0.22	0.34	0.34
Maximum Operating Temperature °C		125	125	125	125
Maximum Temperature Rise °C		105	105	105	105