

Ocean Controls - Stepper Motor Speed Comparison

Motor						Driver		Speed Test				
Stock No	Model No	Price Ex GST (AUD)	Current (A)	Holding Torque (oz-in)	Frame Size	Stock No	Current PK (A)	Test Voltage (V)	Max Freq No Load (KHz)	Max Freq Tight Grip (KHz)	Max Speed No Load (RPM)	Max Speed Tight Grip (RPM)
MOT-095	14HY002	18	0.75	9.7	14	SMC-002	0.71	24	18	2.6	2700	390
MOT-097	16HY303	22	0.4	28	16	SMC-002	0.39	24	6	3.1	900	465
MOT-101	23HD001	49	0.5	49	23	SMC-002	0.71	24	14	2.8	2100	420
MOT-102	23HD601	65	0.6	138	23	SMC-002	0.71	24	2.8	2	420	300
MOT-103	23HD803	89	0.6	222	23	SMC-002	0.71	24	2	1.5	300	225
MOT-104	34HD101	149	2 (S)	550	34	SMC-004	2.1	40	1	1	150	150
MOT-104	34HD101	149	4 (P)	550	34	SMC-004	4.3	40	1.5	1.5	225	225
MOT-105	57HS22	99	2.8 (S)	311	23	SMC-004	2.7	40	3	3	450	450
MOT-105	57HS22	99	5.7 (P)	311	23	SMC-004	5.6	40	65	10	9750	1500
MOT-120	FL42STH38-1684B	59	1.68	50	17	SMC-002	1.81	24	60	8.5	9000	1275
MOT-122	FL57STH56-2804B	79	2.8	174	23	SMC-004	2.7	40	75	26	11250	3900
MOT-125	FL57STH76-2804B	99	2.8	262	23	SMC-004	2.7	40	5.5	5.5	825	825
MOT-128	FL60STH86-2008BF	119	1.4 (S)	430	24	SMC-004	1.4	40	1.6	1.6	240	240
MOT-128	FL60STH86-2008BF	119	2.8 (P)	430	24	SMC-004	2.7	40	40	29	6000	4350

(S) = 8-wire Series Connection
(P) = 8-wire Parallel Connection

24V = Benchtop Power Supply
40V = SPS407 (SMC-100 \$109)

Note: SMC-002 Driver is M325 \$99 + GST
SMC-004 Driver is MD556 \$179 + GST
All tests done at half stepping (400 steps/rev)

Goods and Services Tax (GST) of 10% applies to all items delivered within Australia