

# PM1M/MB

MOTOR	Permanent magnet DC motor
PROTECTION	Ventilated (IP21)
GEARBOX	Worm and wheel (M)
MOTOR POWER	45 - 200 Watts
SPEED	21 - 970 rpm
VOLTAGE	12V - 220V DC available range
WEIGHT	2.82 kg (M); 3.01 kg (MB)
RADIAL LOAD	132 N (M); 226 N (MB)
AXIAL LOAD	88 N (M); 108 N (MB)
SHAFT TYPE	Single ended as standard; hollow or double ended upon request
EXTRAS	See page 36



PM1M pictured  
See page 158 to specify shaft and gearbox position

RATIO	MOTOR SPEED (rpm)				TORQUE (Nm)					
	1500	2000	3000	4000	CONTINUOUS		1 HOUR		15 MINUTE	
	OUTPUT SPEED (rpm)				Composite	Bronze	Composite	Bronze	Composite	Bronze
72	21	28	42	56	5.1	6.8	5.1	7.3	5.1	7.3
66	23	30	45	61	5.1	6.5	5.1	7.3	5.1	7.3
60	25	33	50	67	5.9	6.2	5.9	7.6	5.9	7.9
54	28	37	56	74	5.9	5.9	5.9	7.2	5.9	7.9
48	31	42	63	83	5.5	5.5	5.9	6.8	5.9	7.9
44	34	45	68	91	5.3	5.3	5.9	6.5	5.9	7.9
40	38	50	75	100	5.0	5.0	6.1	6.1	7.9	8.3
36	42	56	83	111	4.7	4.7	5.7	5.7	7.8	7.8
33	45	61	91	121	4.5	4.5	5.4	5.4	7.4	7.4
30	50	67	100	133	4.2	4.2	5.1	5.1	7.0	7.0
27	56	74	111	148	3.9	3.9	4.8	4.8	6.5	6.5
25	60	80	120	160	3.7	3.7	4.6	4.6	6.2	6.2
22 1/2	67	89	133	178	3.5	3.5	4.3	4.3	5.8	5.8
20 1/2	73	98	146	195	3.3	3.3	4.0	4.0	5.4	5.4
18 1/2	81	108	162	216	3.0	3.0	3.7	3.7	5.1	5.1
16 1/2	91	121	182	242	2.8	2.8	3.4	3.4	4.7	4.7
15 1/2	97	129	194	258	2.7	2.7	3.3	3.3	4.5	4.5
14 1/2	103	138	207	276	2.6	2.6	3.1	3.1	4.3	4.3
13 1/3	113	150	225	300	2.4	2.4	3.0	3.0	4.0	4.0
12 1/3	122	162	243	324	2.3	2.3	2.8	2.8	3.8	3.8
11 1/3	132	176	265	353	2.2	2.2	2.6	2.6	3.6	3.6
10 1/3	145	194	290	387	2.0	2.0	2.5	2.5	3.4	3.4
9 1/3	161	214	321	429	1.9	1.9	2.3	2.3	3.1	3.1
8 1/3	180	240	360	480	1.7	1.7	2.1	2.1	2.9	2.9
7 1/4	207	276	414	552	1.5	1.5	1.9	1.9	2.6	2.6
6 1/6	243	324	486	649	1.4	1.4	1.7	1.7	2.3	2.3
5 1/8	293	390	585	780	1.2	1.2	1.4	1.4	2.0	2.0
4 1/8	364	485	727	970	1.0	1.0	1.2	1.2	1.7	1.7

worm gearboxes

