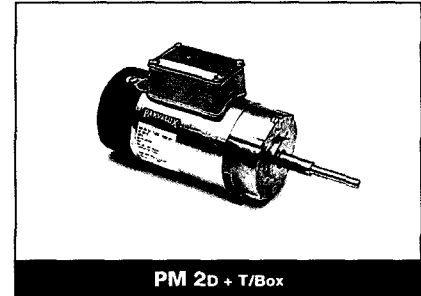
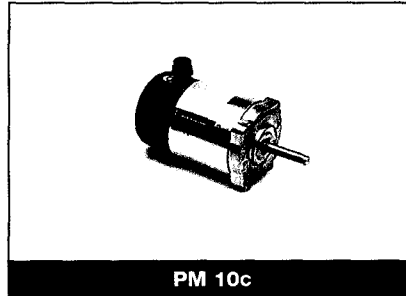
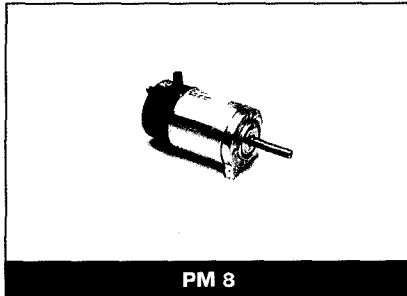


Motor Types:
PM 7 to PM11c
PM 1D-2D-6D PM 3D-4D-5D

Permanent Magnet Type Motors

Variable Speed – D.C.

Enclosures: – PM 1D-PM 2D-PM 6D – Drip Proof Internal Fan Cooled (IP 21)
 PM 3D-PM 4D-PM 5D – PM 7 to PM 11c – Totally Enclosed (IP 54)



- **Voltage Range:** 12v, 24v, 50v, 110v or 200v, D.C. Other voltages quoted for on request.
- **Starting Current:** Approximately 3 times full load.
- **Rotation:** Reversible two leads as standard.
- **Construction: Motors** – Shielded ball bearings spring loaded for quiet running.
Single Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with fibre wheel, grease lubricated for life and suitable for mounting in any position.
In-Line Double Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with fibre wheels, oil bath lubricated for life and suitable for mounting in any position.
Spur Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with fibre and multi-spur type hardened steel gears, oil bath lubricated for life and suitable for mounting in any position.
- **Connections:** 300mm P.V.C. flexible (Terminal box on request).
- **Insulation:** Class 'F' (maximum temperature rise 115°C at a maximum ambient of 40°C).
- **Specifications:** B.S. 5000 part 11. (I.E.C. 72). (C.S.A./U.L. if specified).

- **Optional Extras:** Double ended motor shafts, double ended gear shafts (not in-line).
 Non standard shafts (stainless steel, keyways, flats, etc).
 Terminal box (one position only, on top).
 Holes tapped for spigot mounting.
 3 core cable on request (class 'B').
- **Electro-Magnetic Brake:** Page 66.
- **Thyristor D.C. Controller:** Contact Parvalux, for supplier details.
- **Tachogenerator:** Page 93.
- **Additional Extras for Geared Units:** (Non standard catalogue reductions available on request).
- **Bronze Gears:** (Single and double reduction final gears).
- **Flange Mounting Gearbox Details:** Page 95.
- **Gearbox Shaft Positions:** Page 96.

Full Load r.p.m.	Totally Enclosed (IP 54)														
	PM 7			PM 8			PM 9			PM 10c			PM 11c		
	OUTPUT (watts)														
	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN
1500	7.5	10	13	12.5	15	18	19	24	26	20	25	35	33	40	45
2000	10	13	17	17	21	24	25	33	36	30	40	50	45	55	65
3000	15	20	25	25	33	38	38	45	55	45	55	70	65	80	100
4000	20	25	33	33	40	48	50	60	70	60	75	100	90	110	130
5000	25	30	40	40	48	55	62	70	80	75	90	120	110	130	160

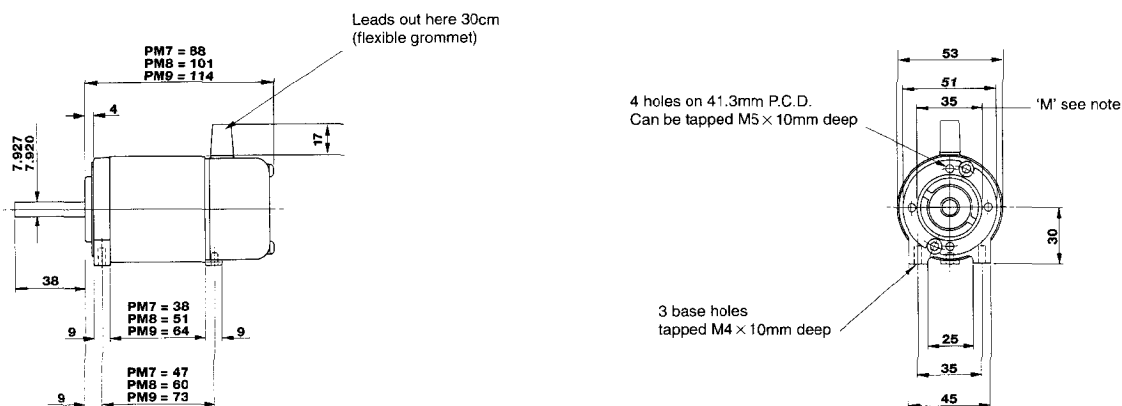
Full Load r.p.m.	Ventilated (IP 21)					
	PM 1D		PM 2D		PM 6D	
	OUTPUT (watts)					
	CONT	30 MIN	CONT	30 MIN	CONT	30 MIN
1500	40	60	50	75	60	80
2000	60	90	80	120	100	150
3000	90	120	120	160	150	200
4000	120	150	160	200	200	250
5000	150	200	200	260	250	300

Full Load r.p.m.	Totally Enclosed (IP 54)								
	PM 3D			PM 4D			PM 5D		
	OUTPUT (watts)								
	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN	CONT	1 HOUR	15 MIN
1500	30	40	60	40	50	75	50	60	80
2000	45	60	90	60	80	120	80	100	150
3000	68	90	120	90	120	160	120	150	200
4000	90	120	150	120	160	200	160	200	250
5000	112	150	200	150	200	260	200	250	300

NOTE: These outputs are based on a pure D.C. supply (i.e. form factor 1) with electronic control, outputs will be reduced, to what degree depends on the form factor (FF) and the matching of motor and controller.
 We recommend a controller range to give the best performance and brush life.

Dimensions in mm. Scale 1:4

**PM 7
PM 8
PM 9**

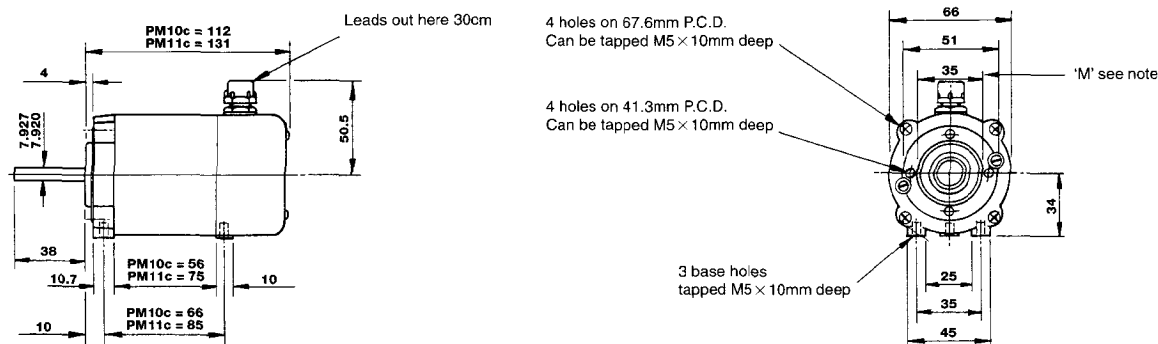


Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R.
Optional shaft at lead end 7.93mm dia. × 33mm long (TOL on length ± 0.25mm)

Approx. weight: PM 7 – 0.5 Kg
PM 8 – 0.7 Kg
PM 9 – 0.9 Kg

Dimensions in mm. Scale 1:4

**PM 10c
PM 11c**



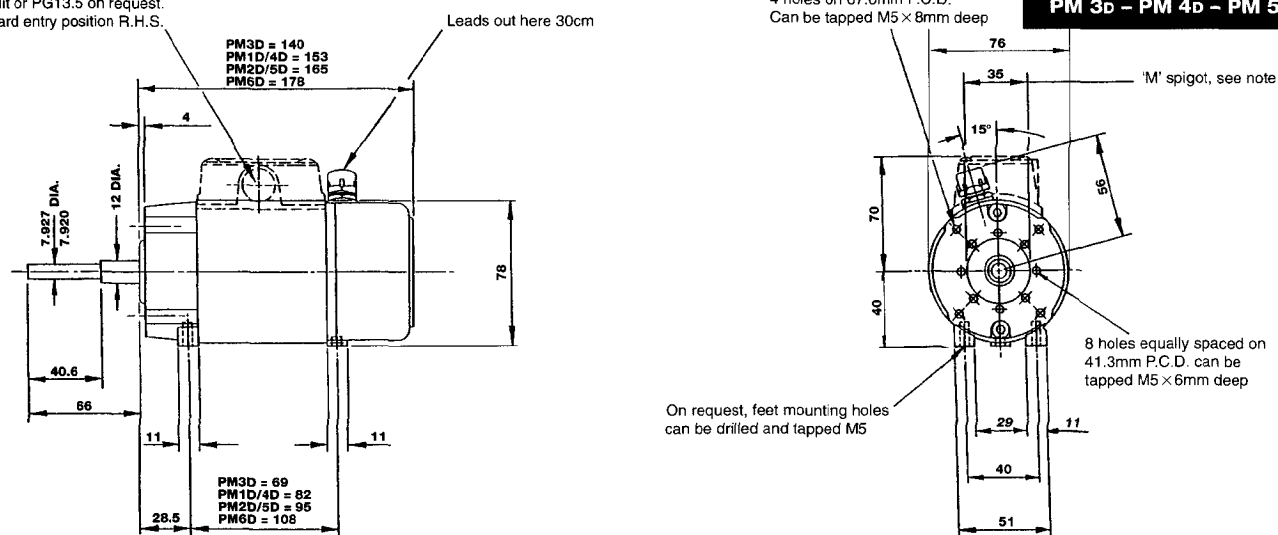
Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R.
Optional shaft at lead end 7.93mm dia. × 33mm long (TOL on length ± 0.25mm)

Approx. weight: PM 10c – 1.12 Kg
PM 11c – 1.58 Kg

Dimensions in mm. Scale 1:4

**PM 1D – PM 2D – PM 6D
PM 3D – PM 4D – PM 5D**

Optional terminal box tapped 20mm.
Conduit or PG13.5 on request.
Standard entry position R.H.S.



Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R.
Optional shaft at lead end 10mm dia. × 33mm long (TOL on length ± 0.25mm)

Approx. weight: PM 1D/3D – 2.11 Kg
PM 2D/4D – 2.46 Kg
PM 5D/6D – 2.65 Kg