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GEARED MOTORS



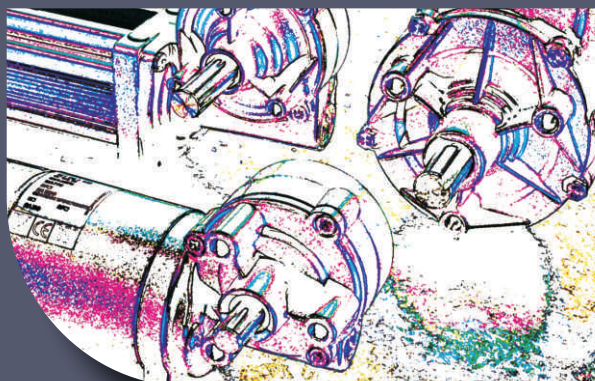
We offer one of the world's most extensive ranges of motors and gearboxes, with literally millions of combinations. From design through to production we have a truly unique delivery capacity: one unit through to thousands. New products are constantly in development to ensure that we continue to offer such choice and flexibility to our customers.

LEGENDARY RELIABILITY



Parvalux have been engineering reliability into every product for over sixty years. From the very first motor assembled to present day production, all our products, even through re-design and technical innovations, remain interchangeable with their counterparts, thus ensuring a lifetime of continuity as well as reliability.

TOTALLY CUSTOMISABLE



Our products enable our customers to make the machine they want, not dictate how they do it. We have built an enviable reputation in providing bespoke designed geared motors. Our responsiveness in providing customised products in small or vast quantities at globally competitive pricing is, we believe, unmatched.

PLANETARY MOTORS

About the range

Our DC brushed motors are fitted with compact, efficient planetary gearheads. Designed for a huge range of diverse industrial applications, our range provides tremendous output torque at incredibly competitive prices. In this way, the product will appeal to machine and product designers wishing to obtain long lifetimes while maintaining their profitability.

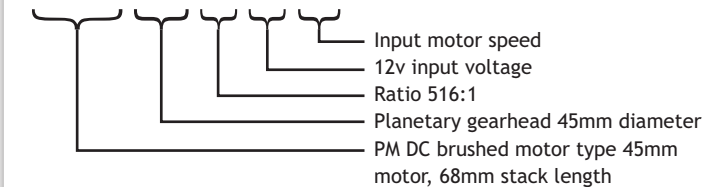
The range consists of 6 DC brushed motors providing an output torque from 0.05 Nm to 30 Nm and output speeds from 3 rpm to 863 rpm. Motor diameter is 38 mm through to 71 mm allowing use in small areas.

Manufactured from a die-cast aluminium housing, the motors utilise a conventional long-life brush gear coupled with strong ferrite magnets for a trouble free life. With a "sealed for life" gearbox, the combined unit is ready for installation immediately and requires no maintenance. Available in 12v or 24v as standard, we are able to provide other variations upon request.

The product can be ordered simply using the unique four digit product stock code or alternatively the type code. For example:

EXAMPLE TYPE CODE

PM45-68 PG45 516 12v 2400



Model	Speed Range (rpm)	Output (watts)	Output Torque (nm)
PM38-63 PG36	3 - 649	3.8	0.05 - 3
PM45-68 PG36	25 - 674	11	0.13 - 3
PM45-68 PG45	5 - 863	11 - 14	0.13 - 10
PM60-75 PG56	3 - 694	3.7 - 10	0.1 - 11
PM60-105 PG56	5 - 694	20 - 30	0.35 - 30
PM71-110 PG56	5 - 667	33 - 59	0.6 - 30

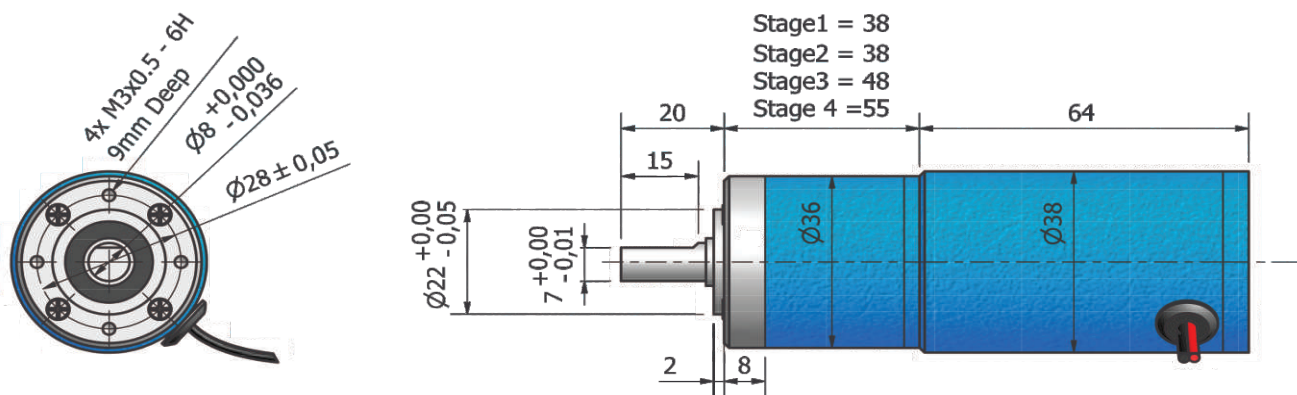
PM38-63 PG36

- DC Planetary 12v
- Speed Range: 3 - 649 r.p.m.
- Output Watts: 3.8 watts
- Torque: 0.05 - 3 N.m.



CONTINUOUS 3.8watts @ 2400 rpm

STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M.	OUTPUT TORQUE (Nm)	WEIGHT (g)
3085	4	720:1	3	3	550
3084	4	369:1	7	3	550
3083	4	264:1	9	3	550
3082	4	189:1	13	2.4	550
3081	3	139:1	17	1.8	500
3080	3	100:1	24	1.3	500
3079	3	71:1	34	0.9	500
3078	3	51:1	47	0.7	500
3077	2	27:1	89	0.3	450
3076	2	19:1	126	0.2	450
3075	2	14:1	171	0.2	450
3074	1	5.1:1	462	0.1	400
3073	1	3.7:1	649	0.05	400



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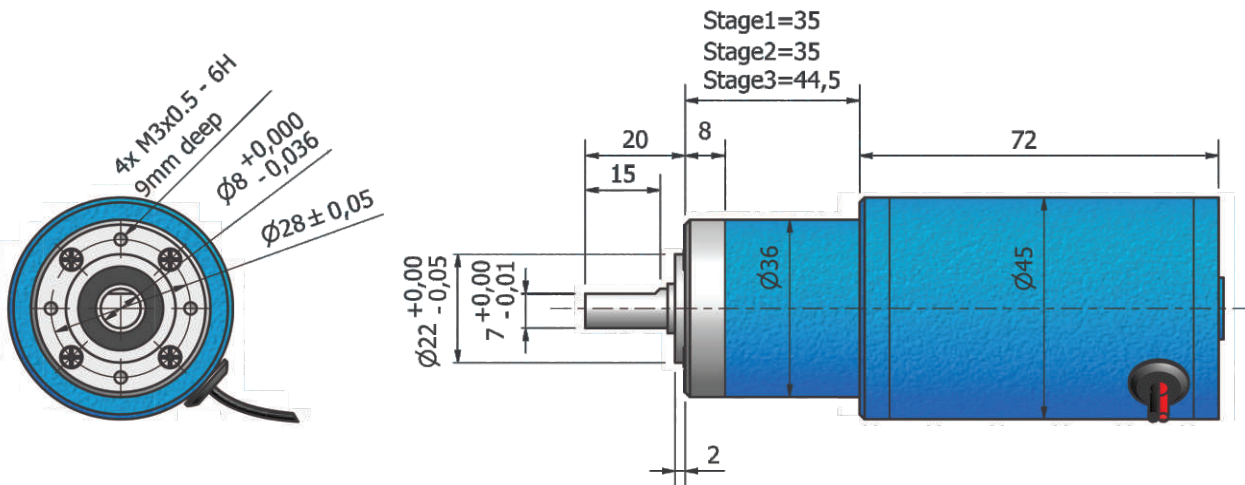
PM45-68 PG36

- DC Planetary 24v
- Speed Range: 25 - 674 r.p.m.
- Output Watts: 11 watts
- Torque: 0.13 - 3 N.m.



CONTINUOUS 11 watts @ 2500 rpm

STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M.	OUTPUT TORQUE (Nm)	WEIGHT (g)
3091	3	100:1	25	3	750
3090	3	51:1	49	1.8	700
3089	2	27:1	93	0.96	650
3088	2	19:1	132	0.68	650
3087	1	5.18:1	483	0.18	650
3086	1	3.71:1	674	0.13	650



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PORTUGAL
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PM45-68 PG45

- DC Planetary 24v
- Speed Range: 5 - 863 r.p.m.
- Output Watts: 11 - 14 watts
- Torque: 0.13 - 10 N.m.



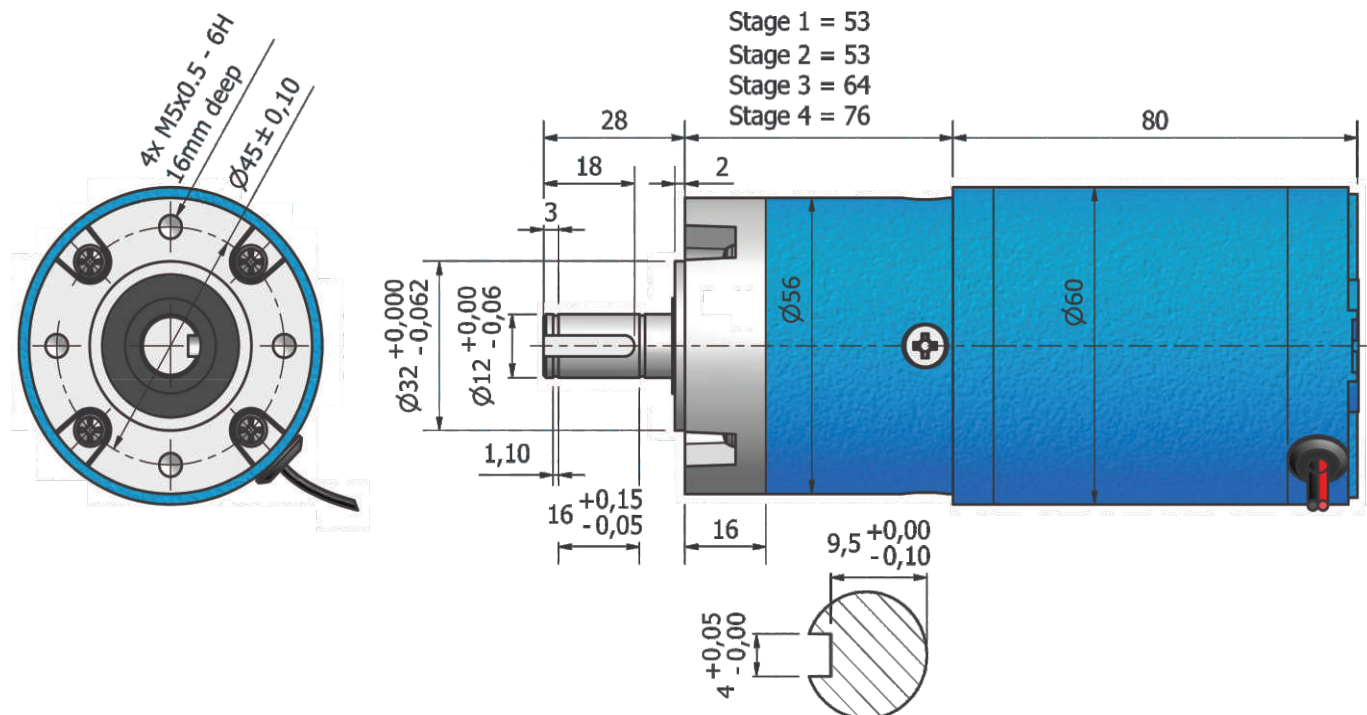
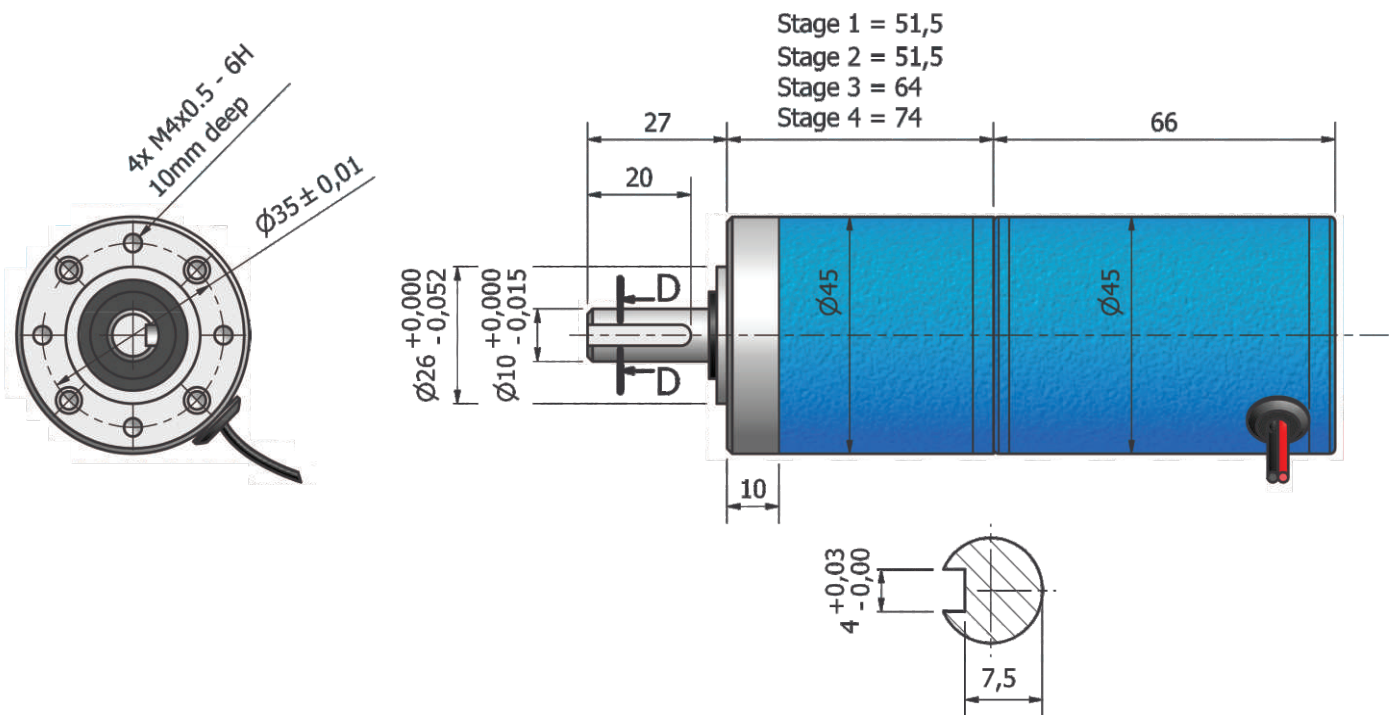
PM60-75 PG56

- DC Planetary 24v
- Speed Range: 3 - 694 r.p.m.
- Output Watts: 3.7 - 10 watts
- Torque: 0.1 - 11 N.m.



CONTINUOUS 11 watts @ 2500 rpm						CONTINUOUS 14 watts @ 3200 rpm					
STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)	STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3124	4	516:1	5	10	950	3240	4	516:1	6	10	950
3227	4	369:1	7	10	950	3239	4	369:1	9	10	950
3123	4	264:1	9	9.4	950	3238	4	264:1	12	9.4	950
3122	4	189:1	13	7	950	3237	4	189:1	17	7	950
3226	3	139:1	18	5	925	3236	3	139:1	23	5	925
3121	3	100:1	25	4	925	3235	3	100:1	32	4	925
3225	3	71:1	35	2.5	925	3234	3	71:1	45	2.5	925
3120	3	51:1	49	1.8	925	3233	3	51:1	63	1.8	925
3119	2	27:1	93	1.0	850	3232	2	27:1	119	1.0	850
3118	2	19:1	132	0.7	850	3231	2	19:1	168	0.7	850
3224	2	14:1	179	0.5	850	3230	2	14:1	229	0.5	850
3117	1	5.2:1	483	0.2	850	3229	1	5.2:1	618	0.2	850
3116	1	3.7:1	674	0.13	850	3228	1	3.7:1	863	0.13	850

CONTINUOUS 3.7 watts @ 890 rpm						CONTINUOUS 5 watts @ 1500 rpm						CONTINUOUS 10 watts @ 2500 rpm					
STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)	STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)	STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3138	4	326:1	3	11	1500	3152	4	326:1	5	9	1500	3166	4	326:1	8	11	1500
3137	4	276:1	3	9	1500	3151	4	276:1	5	7	1500	3165	4	276:1	9	9	1500
3136	4	234:1	4	8	1500	3150	4	234:1	6	6	1500	3164	4	234:1	11	8	1500
3135	4	198:1	4	7	1500	3149	4	198:1	8	5	1500	3163	4	198:1	13	6	1500
3134	4	168:1	5	5.7	1500	3148	4	168:1	9	4.5	1500	3162	4	168:1	15	5.4	1500
3133	3	76:1	12	2.6	1400	3147	3	76:1	20	2.1	1400	3161	3	76:1	33	2.5	1400
3132	3	65:1	14	2.2	1400	3146	3	65:1	23	1.8	1400	3160	3	65:1	38	2.1	1400
3131	3	55:1	16	1.9	1400	3145	3	55:1	27	1.5	1400	3159	3	55:1	45	1.8	1400
3130	3	47:1	19	1.6	1400	3144	3	47:1	32	1.3	1400	3158	3	47:1	53	1.5	1400
3129	2	18:1	49	0.61	1250	3143	2	18:1	83	0.49	1250	3157	2	18:1	139	0.58	1250
3128	2	15:1	59	0.51	1250	3142	2	15:1	100	0.41	1250	3156	2	15:1	167	0.49	1250
3127	2	13:1	68	0.44	1250	3141	2	13:1	115	0.35	1250	3155	2	13:1	192	0.42	1250
3126	1	4.25:1	209	0.14	1250	3140	1	4.25:1	353	0.11	1250	3154	1	4.25:1	588	0.14	1250
3125	1	3.6:1	247	0.12	1250	3139	1	3.6:1	417	0.1	1250	3153	1	3.6:1	694	0.12	1250



PM60-105 PG56

- DC Planetary 24v
- Speed Range: 5 - 694 r.p.m.
- Output Watts: 20 - 30 watts
- Torque: 0.35 - 30 N.m.



PM71-110 PG56

- DC Planetary 24v
- Speed Range: 5 - 667 r.p.m.
- Output Watts: 33 - 59 watts
- Torque: 0.6 - 30 N.m.



CONTINUOUS 20 watts @ 1550 rpm

STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3180	4	326:1	5	30	1900
3179	4	276:1	6	29	1900
3178	4	234:1	7	24	1900
3177	4	198:1	8	21	1900
3176	4	168:1	9	17.6	1900
3175	3	76:1	20	8	1650
3174	3	65:1	24	6.8	1650
3173	3	55:1	28	5.8	1650
3172	3	47:1	33	4.9	1650
3171	2	18:1	86	1.9	1500
3170	2	15:1	103	1.6	1500
3169	2	13:1	119	1.4	1500
3168	1	4.25:1	365	0.44	1500
3167	1	3.6:1	431	0.4	1500

CONTINUOUS 30 watts @ 2500 rpm

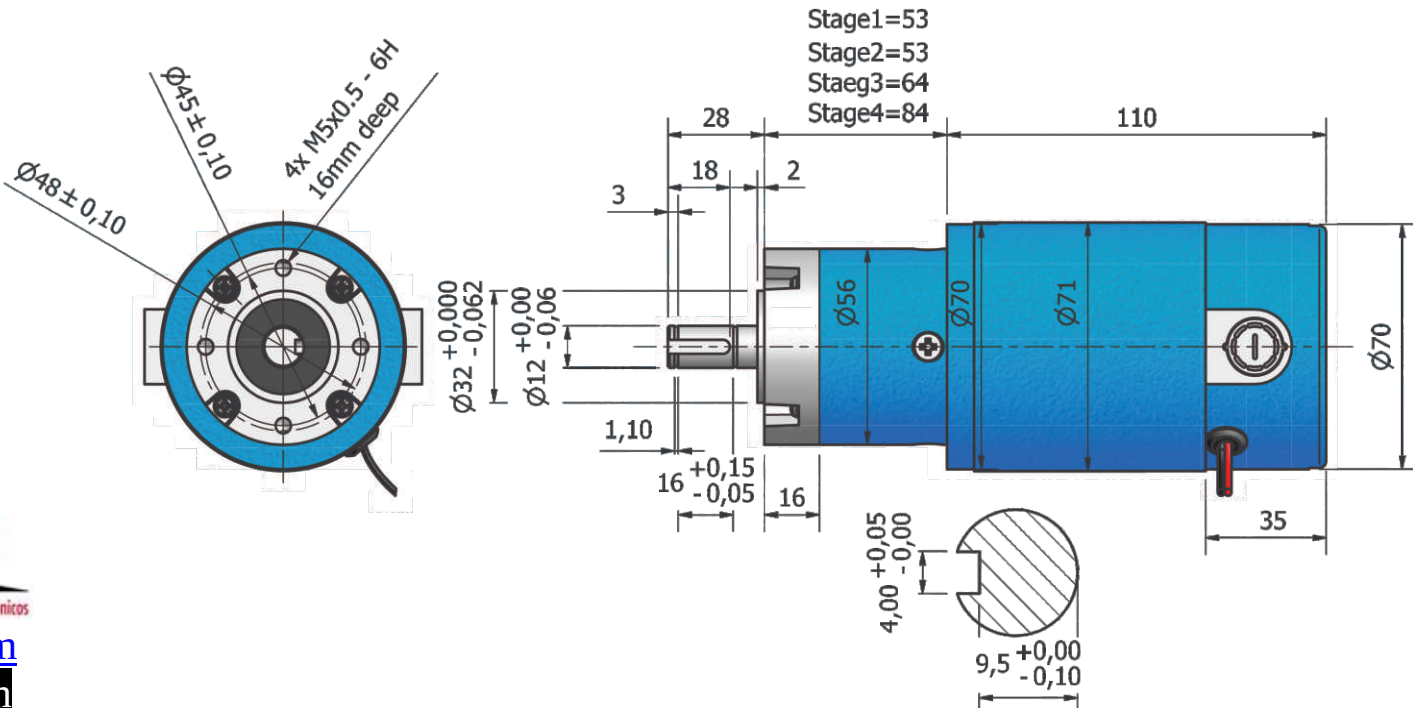
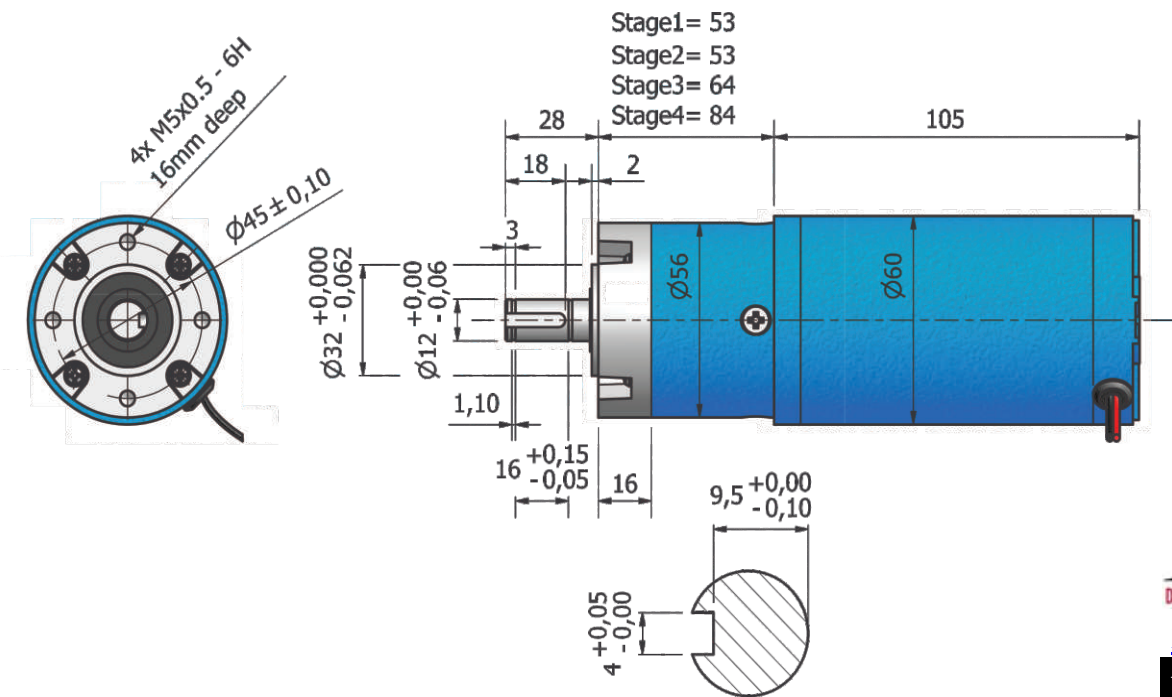
STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3194	4	326:1	8	30	1900
3193	4	276:1	9	27	1900
3192	4	234:1	11	23	1900
3191	4	198:1	13	19	1900
3190	4	168:1	15	16.3	1900
3189	3	76:1	33	7.4	1650
3188	3	65:1	38	6.3	1650
3187	3	55:1	45	5.4	1650
3186	3	47:1	53	4.6	1650
3185	2	18:1	139	1.8	1500
3184	2	15:1	167	1.5	1500
3183	2	13:1	192	1.3	1500
3182	1	4.25:1	588	0.4	1500
3181	1	3.6:1	694	0.4	1500

CONTINUOUS 33 watts @ 1600 r.p.m

STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3208	4	326:1	5	30	2200
3207	4	276:1	6	30	2200
3206	4	234:1	7	30	2200
3205	4	198:1	8	30	2200
3204	4	168:1	10	28	2200
3203	3	76:1	21	13	1900
3202	3	65:1	25	11	1900
3201	3	55:1	29	9.2	1900
3200	3	47:1	34	8	1900
3199	2	18:1	89	3	1750
3198	2	15:1	107	2.5	1750
3197	2	13:1	123	2.0	1750
3196	1	4.25:1	376	0.7	1750
3195	1	3.6:1	444	0.6	1750

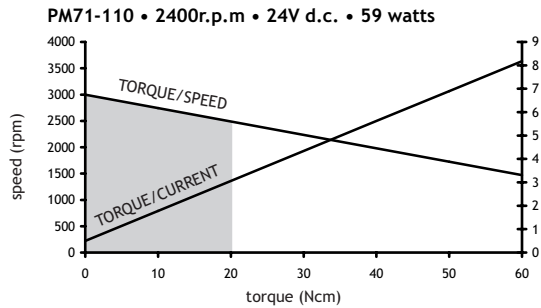
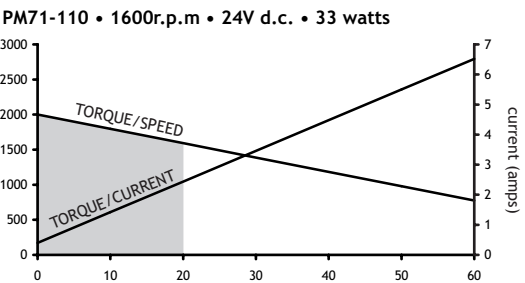
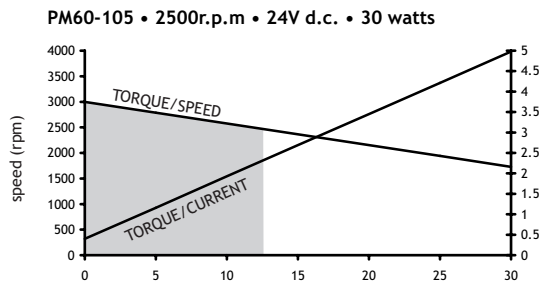
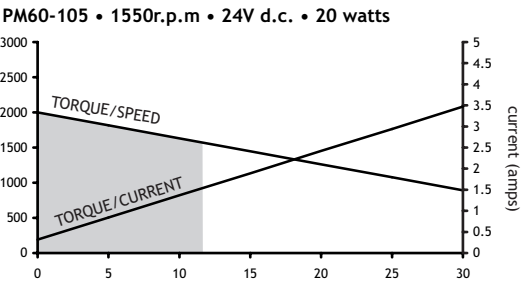
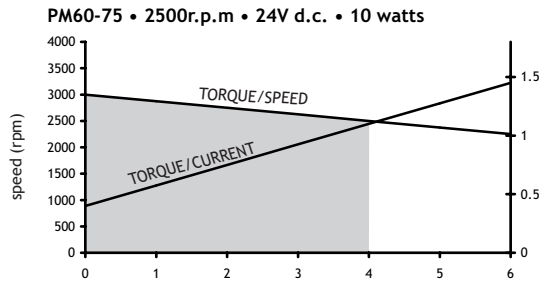
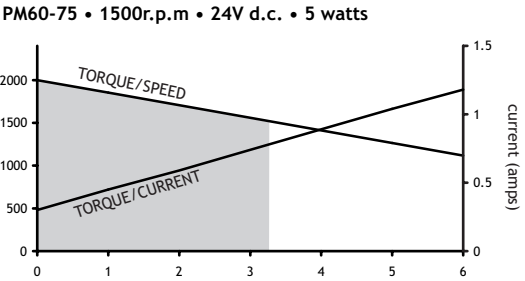
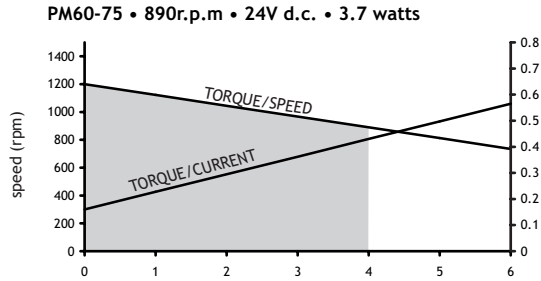
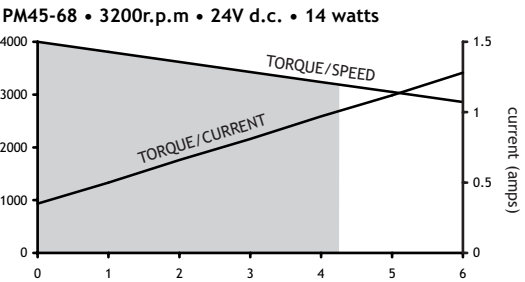
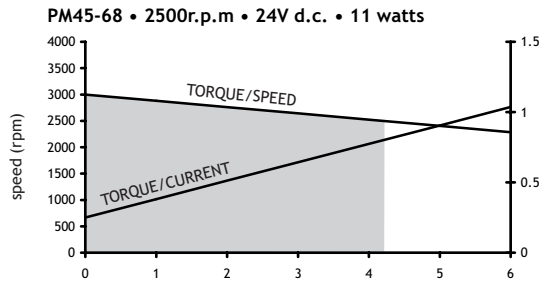
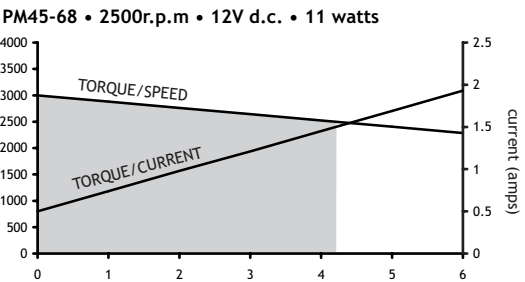
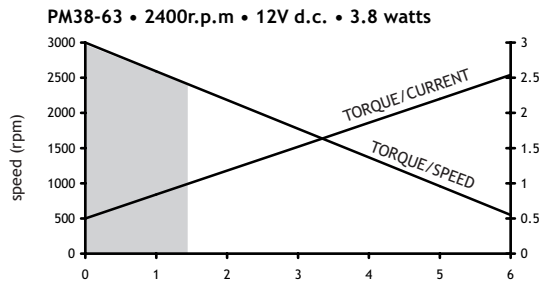
CONTINUOUS 59 watts @ 2400 r.p.m

STOCK CODE	GEARBOX STAGE	GEARBOX RATIO	FINAL R.P.M	OUTPUT TORQUE (Nm)	WEIGHT (g)
3222	4	326:1	7	30	2200
3221	4	276:1	9	30	2200
3220	4	234:1	10	30	2200
3219	4	198:1	12	30	2200
3218	4	168:1	14	30	2200
3217	3	76:1	32	15	1900
3216	3	65:1	37	13	1900
3215	3	55:1	44	11	1900
3214	3	47:1	51	9.4	1900
3213	2	18:1	133	3.6	1750
3212	2	15:1	160	3	1750
3211	2	13:1	185	2.6	1750
3210	1	4.25:1	565	0.9	1750
3209	1	3.6:1	667	0.7	1750



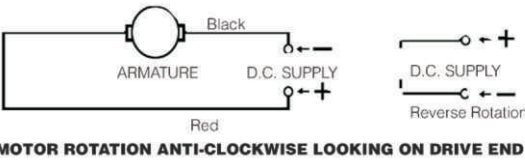
Characteristics

Please see below torque speed characteristics. Should you need any further information please contact our sales team. Tel: +44 (0)1202 512575



ERMEC
Distribución de componentes eléctricos y electrónicos
info@ermec.com
www.ermec.com

Connection Diagram



Motor & Gearbox Construction Details

- Voltage Range: PM38:12v, PM45-PM71:24v
Other voltages on request
- Starting Current: Approximately 3 times full load
- Rotation: Reversible two leads as standard
- Motor Construction: Shielded ball bearings spring loaded for quiet running
- Gearboxes: Fitted with sealed ball bearings and steel gears; grease lubricated for life and suitable for mounting in any position
- Connections: 30cm P.V.C. flexible
- Insulation: Class 'B' (maximum temperature rise 105°C at a maximum ambient of 40°C).
- Motor enclosure: DC planetary gear motors conforms to IP44 rating

Optional Extras

- Double ended motor spindles
- Non standard shafts
(stainless steel, keyways, flats, etc)
- Thyristor D.C. Controller
Contact us on +44 (0)1202 512575

Planetary Gearbox Ratings

GEARBOX TYPE	STAGE	MAX SHORT TIME LOAD	*RADIAL LOAD	AXIAL LOAD	MAX PERM. FITTING PRESSURE	BACKLASH IN ° DEG
PG36	1	1Nm	13N	5N	150N	1.5°
PG36	2	3Nm	26N	10N	150N	1.4°
PG36	3	6Nm	39N	15N	150N	1.4°
PG36	4	6Nm	39N	15N	150N	1.4°
PG45	1	2Nm	40N	10N	200N	1°
PG45	2	5Nm	70N	20N	200N	1°
PG45	3	15Nm	100N	30N	200N	1°
PG45	4	30Nm	130N	40N	200N	0.9°
PG56	1	3Nm	80N	20N	320N	1°
PG56	2	10Nm	140N	40N	320N	1°
PG56	3	30Nm	200N	60N	320N	1°
PG56	4	60Nm	260N	80N	320N	0.9°

NOTE* Radial loads are measured 10mm from the end of the shaft