









motor only 	Type code	Mechanical rating (Nm)	Radial load (N)	Axial load (N)	No of ratios	Shaft Orientation	DC brushless (PBL)			DC permanent magnet (PM)			AC induction (SD)			AC/DC series wound (SD)			DC shunt wound (SD)			Standard options											
							Power <sup>a</sup> (Watts)	Speed (rpm)	Torque <sup>a</sup> (Nm)	Power <sup>a</sup> (Watts)	Speed (rpm)	Torque <sup>a</sup> (Nm)	Power <sup>a</sup> (Watts)	Speed (rpm)	Torque <sup>a</sup> (Nm)	Power <sup>a</sup> (Watts)	Speed (rpm)	Torque <sup>a</sup> (Nm)	Power <sup>a</sup> (Watts)	Speed (rpm)	Torque <sup>a</sup> (Nm)	fixing base (B)	shaft length (mm)	shaft dia. (mm)	shaft output	flange PCD (mm)	International standard flanges						
							Max	Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	Min Max	single	double	hollow (H)	flat	keyway	custom	standard	optional (F)	3-point (3P)	IEC	NEMA
	-	-	-	-	-	In-line	440	4000	0.06 1.4	7.5 900	1500 8000	0.05 1.1	3.7 250	900 2800	0.025 1.3	10 190	2000 6500	0.04 0.36	10 150	2000 5000	0.05 0.38	-	-	○ ○	-	-	-	●	-	-	○ ○ ○		
worm 	S	4.5	69	35	27	90°	84	640	0.2 3.5	7.5 90	21 970	0.2 4.0	3.7 120	13 680	0.06 4.5	38 50	43 960	0.2 2.3	38 50	43 960	0.2 2.3	-	29	9 9	-	● ○ ○	41.3	-	42	-	-	-	
	M	11.8	132 <sup>b</sup>	88 <sup>c</sup>	28	90°	220	480	0.7 11.8	23 280	21 970	0.5 11.7	10 190	12 680	0.36 11.8	38 150	42 970	0.2 6.4	38 150	28 970	0.2 6.8	○	52	12 12	8	○ ● ○	47.6 80	50.8	-	-	-		
	L	22	177 <sup>b</sup>	132 <sup>c</sup>	12	90°	346	432	0.7 19.2	33 450	25 780	0.9 18.7	95 250	15 546	1.6 17	50 150	33 780	0.9 11.3	60 150	33 780	1 11.3	○	51	15 15	15	○ ● ○	57.1 100	72	-	-	-		
	LS	22	314	196	12	90°	346	432	0.7 19.2	33 450	25 780	0.9 18.7	95 250	15 546	1.6 17	50 150	33 780	0.9 11.3	60 150	33 780	1 11.3	-	51	25 25	15	○ ● ○	-	-	-	-	-		
	G	50	491	294	6	90°	440	240	6.6 50	80 450	20 320	4.6 45.1	-	-	-	-	-	-	-	-	-	-	75	25 25	15	○ ● ○	-	-	-	-	-		
EMD worm 	GB12	40	-	-	6	90°	-	-	-	63 275	20 560	1.4 27.4	-	-	-	-	-	-	-	-	-	-	○	<25	<25	-	○ ○ ○	-	-	-	-	-	
	GB9	104	-	-	5	90°	-	-	-	200 275	20 560	3.5 56.1	-	-	-	-	-	-	-	-	-	-	○	<25	<25	-	○ ○ ○	-	-	-	-	-	
double worm 	SS	5.9	54	35	19	90°/in-line	-	-	-	7.5 60	0.5 150	0.8 5.9	3.7 120	0.32 40	0.34 5.9	15 50	1 80	1.8 5.9	38 50	1 80	2.8 5.9	-	29	9 9	-	● ○ ○	41.3	-	42	-	-	-	
	MM	11.8	88 <sup>b</sup>	88 <sup>c</sup>	12	90°/in-line	-	-	-	23 60	0.3 59	5 11.8	8 190	0.5 30	1.1 11.8	10 125	1 80	3.4 11.8	10 150	1 80	3.4 11.8	○	52	12 12	8	○ ● ○	47.6 80	50.8	-	-	-		
double worm 	SIW	11.3	78	49	17	in-line	136	102	2.5 11.3	7.5 90	1 235	0.6 11.3	8 60	1 164	0.4 11.3	10 38	1.5 176	0.5 11.3	10 38	1.5 176	0.5 11.3	●	29	9 -	-	● ○ ○	41.3	-	-	-	-	-	
	MIW	28	265	132	17	in-line	184	77	3.2 28	23 120	1 235	1.7 28	8 120	1 164	0.5 28	10 75	1.5 176	0.5 28	10 95	1.5 176	0.5 28	●	52	12 -	-	○ ● ○	47.6	-	-	-	-	-	
	LIW	45	353	196	15	in-line	available on request	-	-	33 200	1 108	4.7 45	35 190	1.1 75	4.3 45	30 95	1.6 81	2 45	50 125	1.6 81	4 45	●	51	15 -	-	○ ● ○	57.1	-	-	-	-	-	
spur 	SIS	7.9	88	44	9	in-line	-	-	-	7.5 90	5 182	0.9 7.9	8 60	3 127	1.24 7.9	10 38	6.6 136	1 7.9	10 38	6.6 136	1 7.9	●	25.5	10 -	-	● ○ ○	41.3 77.2	-	-	-	-	-	
	MIS	45	216	137	9	in-line	-	-	-	33 200	15 623	1 37	35 190	14 436	1 45	30 95	20 467	0.8 23	50 125	20 467	1.3 30	●	51	14 -	-	○ ● ○	48	-	-	-	-	-	
	LIS	74	265	177	11	in-line	-	-	-	23 280	4 667	1 86	10 190	2.6 467	1 100	30 95	6 500	1 74	50 125	6 500	1 74	●	51	15 -	-	○ ● ○	70	-	-	-	-	-	
worm spur 	SWS	11	177	112	10	90°	52	67	3.6 11	7.5 60	1 101	1.5 11	8 25	1 71	1.9 11	15 38	1.8 76	1.9 11	15 38	1.8 76	1.9 11	●	32	10 10	-	● ○ ○	-	-	-	-	-	-	
	MWS	45	353	177	17	90°	134	98	3.3 45	7.5 90	1 149	1 45	10 60	0.65 106	1.1 45	25 50	1.4 150	1.8 45	25 50	1.4 150	1.8 45	●	51	14 14	-	○ ● ○	48	-	-	-	-	-	
	LWS	100	446	226	21	90°	184	80	3.4 100	23 450	0.4 80	4 100	8 190	0.22 90	1 100	38 125	0.9 80	3.5 100	38 150	0.9 80	3.5 100	●	51	15 <sup>e</sup> 15 <sup>e</sup>	-	○ ● ○	70	-	-	-	-	-	
	GWS	250	667	353	14	90°	184	44	19.4 250	60 450	0.5 71	16 250	55 250	0.4 50	11 250	-	-	-	-	-	-	-	●	76	25 25	15	○ ● ○	75	-	-	-	-	-
planetary 	PG36	3 <sup>d</sup>	39 <sup>d</sup>	15 <sup>d</sup>	13	in-line	-	-	-	3.8 11	3 674	0.05 3	-	-	-	-	-	-	-	-	-	-	-	20	8 -	-	● ○ ○	28	-	-	-	-	-
	PG45	15 <sup>d</sup>	130 <sup>d</sup>	40 <sup>d</sup>	13	in-line	-	-	-	11 14	5 863	0.1 10	-	-	-	-	-	-	-	-	-	-	-	27	10 -	-	○ ● ○	35	-	-	-	-	-
	PG56	30 <sup>d</sup>	260 <sup>d</sup>	80 <sup>d</sup>	14	in-line	-	-	-	3.7 59	3 694	0.1 30	-	-	-	-	-	-	-	-	-	-	-	28	12 -	-	○ ● ○	45	-	-	-	-	-
	HP60	40 <sup>d</sup>	725 <sup>d</sup>	225 <sup>d</sup>	34	in-line	220	1000	0.4 30	23 450	1 1000	0.52 30	-	-	-	-	-	-	-	-	-	-	-	30	15 -	-	○ ● ○	45	-	-	-	-	-

**ERMEC**  
www.ermec.com  
Distribución de componentes eléctricos y electrónicos  
Tel.: (+34) 902 450 160  
Fax: (+34) 902 433 088  
[ermec@ermec.com](mailto:ermec@ermec.com)  
[www.ermec.com](http://www.ermec.com)

	DC brushless	DC permanent Magnet	AC induction	AC/DC series wound	DC shunt wound	Optional extras
motor construction	Wound stator, permanent magnet rotor	Permanent magnet stator, wound rotor with commutator	Wound stator, aluminium cage rotor	Low resistance wound stator, wound rotor with commutator	High resistance wound stator, wound rotor with commutator	Tachogenerator; encoder; terminal box; brake; speed reducer; controller
insulation class	F	F	F	F	F	Customisation options
supply voltage	DC up to 48V with controller	DC from 12V to mains voltage	AC 1 or 3 phase mains voltage	AC or DC up to mains voltage	DC up to mains voltage	Shaft; spindle; paint finish; fixing arrangements; non-standard ratios; Ingress Protection (IP) rating; gear material; lubricant; insulation class
ingress protection	IP54	IP22 / IP54 / IP66	IP20 / IP50 / IP54	IP20 / IP23 / IP50 / IP54	IP20 / IP23 / IP50 / IP54	Design options
						Bespoke OEM motor-gearbox design and manufacture service   call for details

a: for S1 duty cycle (continuous operation); figures for intermittent operation may be higher, call for details | b: approx. 70% higher when supplied with base | c: approx. 20% higher when supplied with base | d: for 4-stage assembly | e: 17mm diameter shaft available with ratios 115:1 and 56:1 | f: maximum | KEY: ● as standard ○ optional