



Mclennan

PRECISION  
MOTION  
CONTROL

D.C. miniature gear-motors



micro  
motors s.r.l.



technology in motion





## general guide

## gear - motors



TYPE		1271	B138F BS138F	B138F.4/12 BS138F.4/12	HL149	HV155	1308	E192	P205
Voltage	V	4-6-12	6-12	12	12-24	12-24	12-24	12-24	12-24
Reduction		10 ÷ 392	12 ÷ 1470	12 ÷ 608	10 ÷ 90	10 ÷ 90	30 ÷ 630	3 ÷ 625	4 ÷ 625
Max Torque	Ncm	20	50	50	15	25	100	300	900
Speed (no load)	RPM	255 ÷ 6	220 ÷ 1.8	320 ÷ 6.5	315 ÷ 37	660 ÷ 75	110 ÷ 5	1100 ÷ 6.4	1024 ÷ 6.7
Speed (max Torque)	RPM	165 ÷ 4	155 ÷ 1.6	250 ÷ 5.3	220 ÷ 30	460 ÷ 62	70 ÷ 4.5	770 ÷ 6	640 ÷ 6.3
Dimensions	mm	Ø 27	Ø 34	Ø 34	Ø 30	Ø 30	Ø 39.6	Ø 40.5	42 x 42

### NOTE:

It is recommended to avoid the use of the motor's internal inductance in PWM drive applications. It is advisable to use an external series inductance.



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### planetary



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### brushless planetary



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# TECHNICAL DATA

series

# P205

Planetary gear-motor  
 Motor interference suppression by VDR  
 Outgoing shaft supported by two ball bearings  
 Maximum radial shaft load: 300N  
 (10 mm from the fixing flange)  
 Maximum axial shaft load: 150N  
 Direction of rotation depending on polarity  
 Can be mounted in any position  
 Working temperature range: -20°C/60°C  
 Approx weight: 700/900g



Typical values at ambient temperature +20°  
 Tolerance +/- 10%

TYPE	NOMINAL VOLTAGE	L	RATIO TO:1	MAXIMUM TORQUE	SPEED		CURRENT		INPUT POWER AT MAX TORQUE
					NO LOAD	AT MAX TORQUE	NO LOAD	AT MAX TORQUE	
	v	mm	Ncm	rpm	A	W			
P205 · 12/24 · 4	12/24	120.5	4	50	1024/1017	625/640	<0.7/<0.4	5.45/2.70	65.4/64.8
P205 · 12/24 · 6	12/24	120.5	6.25	60	656/652	459/470	<0.7/<0.4	4.20/2.15	50.4/51.6
P205 · 12/24 · 16	12/24	133	16	150	257/256	178/186	<0.7/<0.4	4.50/2.20	54.0/52.8
P205 · 12/24 · 25	12/24	133	25	250	165/165	110/116	<0.7/<0.4	4.55/2.30	54.6/55.2
P205 · 12/24 · 39	12/24	133	39.06	350	106/105	75/77	<0.7/<0.4	4.20/2.10	50.4/50.4
P205 · 12/24 · 64	12/24	145.5	64	600	64/64	41.5/45	<0.7/<0.4	4.80/2.40	57.6/57.6
P205 · 12/24 · 100	12/24	145.5	100	700	41.3/41.3	30.3/32.4	<0.7/<0.4	3.60/1.75	43.2/42.0
P205 · 12/24 · 156	12/24	145.5	156.25	800	26.5/26.5	21.3/22	<0.7/<0.4	2.85/1.45	34.2/34.8
P205 · 12/24 · 244	12/24	145.5	244.14	900	16.9/16.9	14.9/14.9	<0.7/<0.4	2.20/1.10	26.4/26.4
P205 · 12/24 · 400	12/24	158	400	900	10.2/10.2	9.4/9.4	<0.7/<0.4	1.65/0.85	19.8/20.4
P205 · 12/24 · 625	12/24	158	625	900	6.7/6.7	6.3/6.3	<0.7/<0.4	1.25/0.65	15.0/15.6

# P205

