

D.C. miniature gear-motors



**micro
motors** s.r.l.



t e c h n o l o g y i n m o t i o n





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

B138F

VDR interference suppression on the collector
 Precious metal brushes (Au - Ag - Cu)
 Direction of rotation depending on polarity
 Can be mounted in any position
 Maximum radial shaft load: 20N
 Maximum axial shaft load: 5N
 Temperature range: -20°C/60°C
 Approx weight: 85g



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

TYPE	NOMINAL VOLTAGE	L	RATIO TO:1	MAXIMUM TORQUE	SPEED		CURRENT	
					NO LOAD	AT MAX TORQUE	NO LOAD	AT MAX TORQUE
	v	mm	Ncm	rpm	mA	mA		
B138F. $\frac{6}{12} \cdot 12$	$\frac{6}{12}$	37.5	12.25	1.5	220	155	<30 <20	100 55
B138F. $\frac{6}{12} \cdot 21$	$\frac{6}{12}$	37.5	21.14	2.5	125	85	<30 <20	100 55
B138F. $\frac{6}{12} \cdot 36$	$\frac{6}{12}$	37.5	35.73	4	73	53	<30 <20	95 50
B138F. $\frac{6}{12} \cdot 72$	$\frac{6}{12}$	37.5	71.54	7	37	28	<30 <20	95 50
B138F. $\frac{6}{12} \cdot 149$	$\frac{6}{12}$	37.5	149.05	14	18	13	<30 <20	95 50
B138F. $\frac{6}{12} \cdot 208$	$\frac{6}{12}$	37.5	208.66	20	13	9	<30 <20	95 50
B138F. $\frac{6}{12} \cdot 608$	$\frac{6}{12}$	37.5	608.61	50	4.3	3.3	<30 <20	90 48
B138F. $\frac{6}{12} \cdot 1470$	$\frac{6}{12}$	37.5	1470.82	50	1.8	1.6	<30 <20	58 30

B138F

