

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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### brushless planetary



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## TECHNICAL DATA

series

# E192

Planetary gear-motor  
 Motor interference suppression by VDR and capacitors  
 Outgoing shaft two ball bearings supported  
 Maximum radial shaft load: 200N  
 (10 mm from the fixing flange)  
 Maximum axial shaft load: 100N  
 Direction of rotation depending on polarity  
 Can be mounted in any position  
 Temperature working range: -20°C/60°C  
 Approx weight: 385/480g



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	
E192-12-24-3	12-24	86	3.66	15	1100-1100	700-770	<0.4-0.2	1.70-0.96	20.4-23
E192-12-24-5	12-24	86	5	20	800-830	510-575	<0.4-0.2	1.75-0.95	21-22.8
E192-12-24-13	12-24	93	13.44	45	300-300	200-225	<0.4-0.2	1.65-0.85	19.8-20.4
E192-12-24-18	12-24	93	18.33	60	218-226	155-170	<0.4-0.2	1.65-0.84	19.8-20.2
E192-12-24-25	12-24	93	25	90	160-166	105-118	<0.4-0.2	1.75-0.88	21-21.1
E192-12-24-49	12-24	100	49.29	160	82-82	58-60	<0.4-0.2	1.60-0.85	19.2-20.4
E192-12-24-67	12-24	100	67.22	220	59.5-61.5	40-45	<0.4-0.2	1.80-0.88	21.6-21.1
E192-12-24-91	12-24	100	91.66	270	43.6-45	31-34	<0.4-0.2	1.70-0.85	20.4-20.4
E192-12-24-125	12-24	100	125	300	32-33	24-26	<0.4-0.2	1.32-0.64	15.9-15.4
E192-12-24-180	12-24	107	180.75	220	22-22	20-20	<0.4-0.2	0.75-0.42	9-10.1
E192-12-24-246	12-24	107	246.48	300	15.2-16.8	14.5-15	<0.4-0.2	0.87-0.43	10.5-10.3
E192-12-24-336	12-24	107	336.11	300	11.9-12.3	11-11.5	<0.4-0.2	0.69-0.34	8.3-8.2
E192-12-24-458	12-24	107	458.3	300	9-9.5	8.5-9	<0.4-0.2	0.54-0.28	6.5-6.7
E192-12-24-625	12-24	107	625	300	6.4-6.6	6-6.2	<0.4-0.2	0.46-0.23	5.5-5.5

# E192

