



**motorfox**

# DC Brushless Motors | Product Overview

	MF63-11	MF45-08	MF10-11	MF12-11	MF12-34	MF12-17	MF15-15	MF15-21	MF23-19	MF30-48
<b>Stator Diameter (in.)</b>	0.63	0.45	1	1.2	1.2	1.2	1.5	1.58	2.37	3
<b>Stator Assembly Length (in.)</b>	1.16	0.8	1.12	1.14	3.4	1.69	1.49	2.18	1.94	4.8
<b>Operating Voltage (Vdc)</b>	24	13	90	22.5	110	210	110	90	240	220
<b>Kt: Torque Constant (oz-in/Amp)</b>	1.78	1.37	5.06	2.4	7.82	8.43	9.08	10.86	40.39	30.12
<b>Ke: Speed Constant (Volts/kRPM)</b>	1.32	1.01	3.74	1.77	5.78	6.24	6.71	8.03	30.65	22.28
<b>Km: Motor Constant (oz-in/Watts)</b>	0.93	0.46	4.34	2.67	6.60	5.2	8.19	11.98	24.33	94.15
<b>No Load Speed (RPM)</b>	17,250	12,118	23,959	12,540	14,725	33,414	12,172	9,265	6,384	9,870
<b>Power Point (HP)</b>	0.035	0.003	0.45	0.11	0.84	1.56	1.03	0.29	2.1	13.1
<b>Peak Torque (in-oz)</b>	5.4	1.91	6.2	21.5	126	115	104	114	913	2,409
<b>Commutation Method</b>	Magnetic Sensor	Magnetic Sensor	Hall Effects	Magnetic Sensor	Hall Effects	Hall Effects	Hall Effects	Hall Effects	Hall Effects	Magnetic Sensor
<b>Motor Construction</b>	Frameless	Frameless	Housed	Frameless	Housed	Housed	Housed	Housed	Frameless	Frameless
<b>Thermal Class (minimum)</b>	H	H	H	H	H	H	H	H	H	H
<b>Phase Resistance (Rm)</b>	3.25	8.85	1.38	0.66	1.4	2.76	1.31	0.86	1.72	0.10
<b>Phase Inductance (Lm)</b>	0.34	0.32	0.74	0.56	1.16	2.95	1.65	2.21	2.65	0.24

*Note: The data listed is based on previously produced motors and do not represent the limitations of our motor design and development capability  
Motor output power dependent on duty cycle - consult us for further information*