

Characteristics:

High Power, High Efficiency

Specifications:

Dimensions	: Ø 1.8 X 3.0 in
Shaft Diameter	: Ø 0.197 in
Input Voltage	: 230.0 V DC
Rectified	: Rectified
No Load Speed	: 15633 rpm
Maximum Efficiency	: 68%
Speed at Maximum Efficiency	: 12009 rpm
Other Features	: Plate rating power 700Wi for 5-10 seconds
Weight	: 15 oz
Operating Temperature Range	: 14 to 131 °F
Storage Temperature Range	: -4 to 176 °F
Electrical Connection	: Terminal



Performance Data:

	No Load	Stall	Maximum Efficiency	Maximum Power
Current (A)	0.15	-	0.93	-
Efficiency (%)	-	-	68	-
Output Power (hp)	-	-	0.17	-
Speed (rpm)	15633	-	12009	-
Torque (Lb.in)	-	-	0.86	-

Application Examples:

Hand Blenders

[illegible]

The graph displays the performance characteristics of the 100W BLDC motor. The primary Y-axis represents Speed (Rpm) from 0 to 18,000. The secondary Y-axes on the right represent Efficiency (Eff.) and Power Factor (PF) from 0 to 100%, Input Power (P in) and Current from 0 to 5.0 Amps, and Output Power (P out) from 0 to 1000 Watts. The X-axis represents Torque (mNm) from 0 to 450. The Speed curve (blue) decreases linearly from 15,500 Rpm at 0 mNm to 6,000 Rpm at 340 mNm. The PF curve (green) increases from 70% at 0 mNm to a peak of 90% at 150 mNm, then slightly decreases. The Eff. curve (green) increases from 0% at 0 mNm to a peak of 65% at 100 mNm, then decreases. The P in curve (yellow) increases linearly from 0 W at 0 mNm to 1000 W at 340 mNm. The Current curve (red) increases linearly from 0 A at 0 mNm to 5.0 A at 340 mNm. The P out curve (yellow) increases from 0 W at 0 mNm to a peak of 400 W at 300 mNm, then slightly decreases.

Torque (mNm)	Speed (Rpm)	PF (%)	Eff. (%)	P in (W)	Current (Amp)	P out (W)
0	15500	70	0	0	0.0	0
50	14000	80	55	200	1.0	100
100	12500	85	65	400	2.0	200
150	11000	90	60	600	3.0	300
200	9500	90	55	800	4.0	350
250	8000	85	50	1000	5.0	380
300	6500	80	45	1200	6.0	400
340	6000	75	40	1400	7.0	380

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