

Characteristics:

High Power DC motor

Specifications:

Dimensions	: Ø 27.5 X 32.5 mm
Shaft Diameter	: Ø 2.305 mm
Input Voltage	: 41.0 V DC
No Load Speed	: 18000 rpm
No Load Current	: 0.05 A
Nominal Speed	: 16500 rpm
Nominal Torque	: 2.50 mNm
Nominal Current	: 0.18 A
Stall Torque	: 38.00 mNm
Stall Current	: 2.00 A
Maximum Output Power	: 18.00 W
Maximum Efficiency	: 65%
Torque at Maximum Efficiency	: 6.00 mNm
Speed at Maximum Efficiency	: 15000 rpm
Life (Typical)	: 150 hr
Weight	: 50 g
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: terminals



Performance Data:

	No Load	Stall	Maximum Efficiency	Maximum Power
Current (A)	0.05	2.00	0.35	1.00
Efficiency (%)	-	-	65	45
Output Power (W)	-	-	10.00	18.00
Speed (rpm)	18000	-	15000	9000
Torque (mNm)	-	38.00	6.00	20.00

[illegible]

The graph shows the performance characteristics of a 4-pole induction motor. The x-axis represents Torque in m-Nm, ranging from 0 to 40.0. The left y-axis represents Speed in rpm, ranging from 0 to 20,000. The right y-axes represent Efficiency (Eff) in %, Current in Amps, and Power in Watts, all ranging from 0 to 100. The curves are labeled as follows:

- N (Speed):** A straight line decreasing from approximately 17,800 rpm at 0 torque to 0 rpm at 38.5 m-Nm.
- P (Power):** A curve starting at 0, peaking at approximately 17,500 rpm at 19.25 m-Nm, and returning to 0 at 38.5 m-Nm.
- Eff (Efficiency):** A curve starting at 0, peaking at approximately 65% efficiency at 6.25 m-Nm, and returning to 0 at 38.5 m-Nm.
- I (Current):** A straight line increasing from 0 A at 0 torque to approximately 2.5 A at 38.5 m-Nm.

Torque (m-Nm)	Speed (rpm)	Power (Watt)	Eff (%)	Current (Amp)
0	17800	0	0	0
5	16500	1000	60	0.5
10	15200	4000	65	1.0
15	13900	9000	60	1.5
19.25	12500	17500	55	1.8
25	11200	10000	40	2.2
30	9900	4000	15	2.5
38.5	0	0	0	2.5

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