

Product Description

EMFi Hub Motor series is characterized by reliable technology and flexible configurations. Our air-cooled Hub Motors are not affected by potential motor heat generated that might impair system performance. Whether used as a front or rear wheel drive, the option of turning the drives in both directions opens up a wealth of usage applications and product design possibilities.

Our drive can be installed in the front or rear wheel and the shaft can be modified to the design needs of the customer for specific application needs. This lowers manufacturing costs and gives our customers the highest possible flexibility in product design. Our warranty options also deliver after sales services and enable overall customer satisfaction.

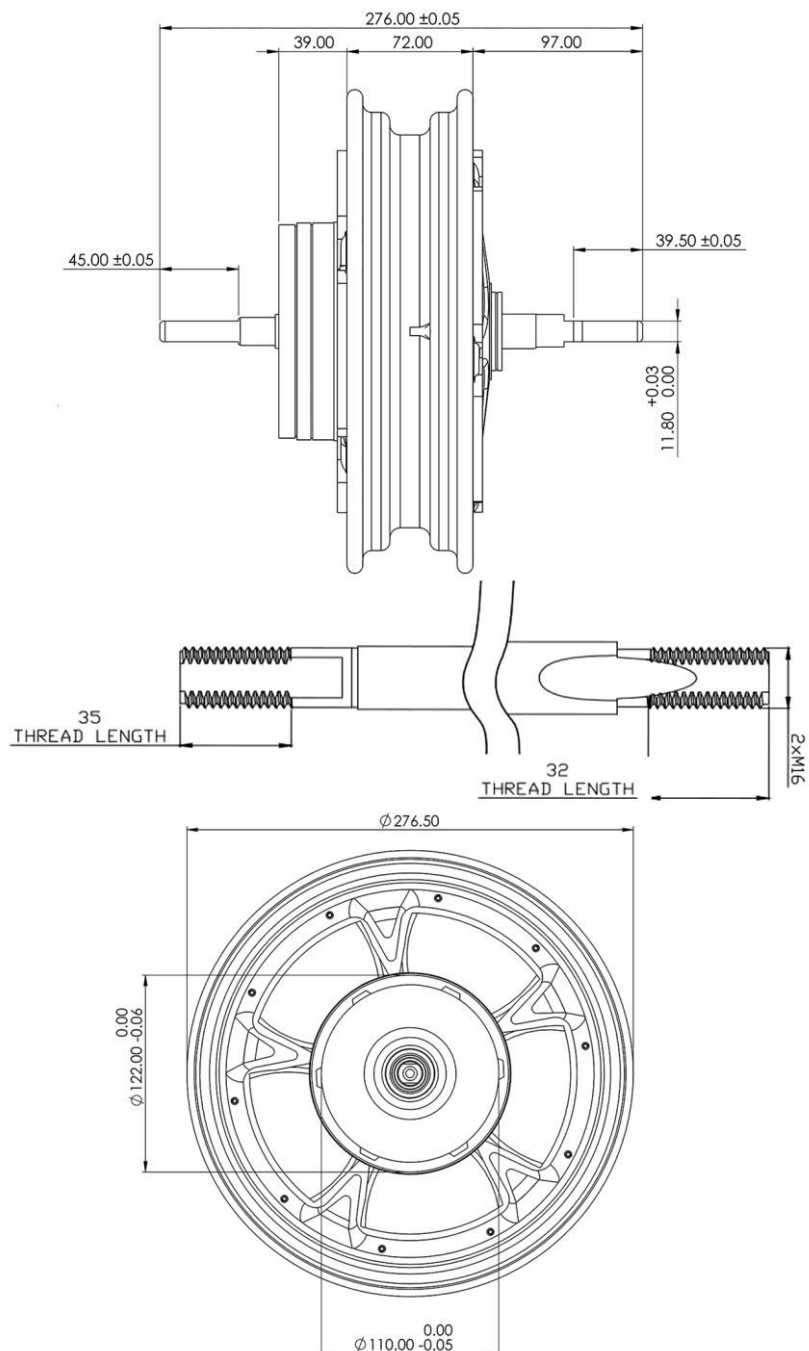
Product Features

- Rear wheel drive
- Low speed Motors support up to 40 km/h*
- Nominal output up to 1000 W*
- 19 Nm nominal and 83 Nm peak torque
- Weight: 8.5 kg
- No gear, no brush, no wear, no noise
- Smooth, controllable variable-speed operation
- Highly energy efficient

*Function and feature of Motor Controller



Technical Drawings

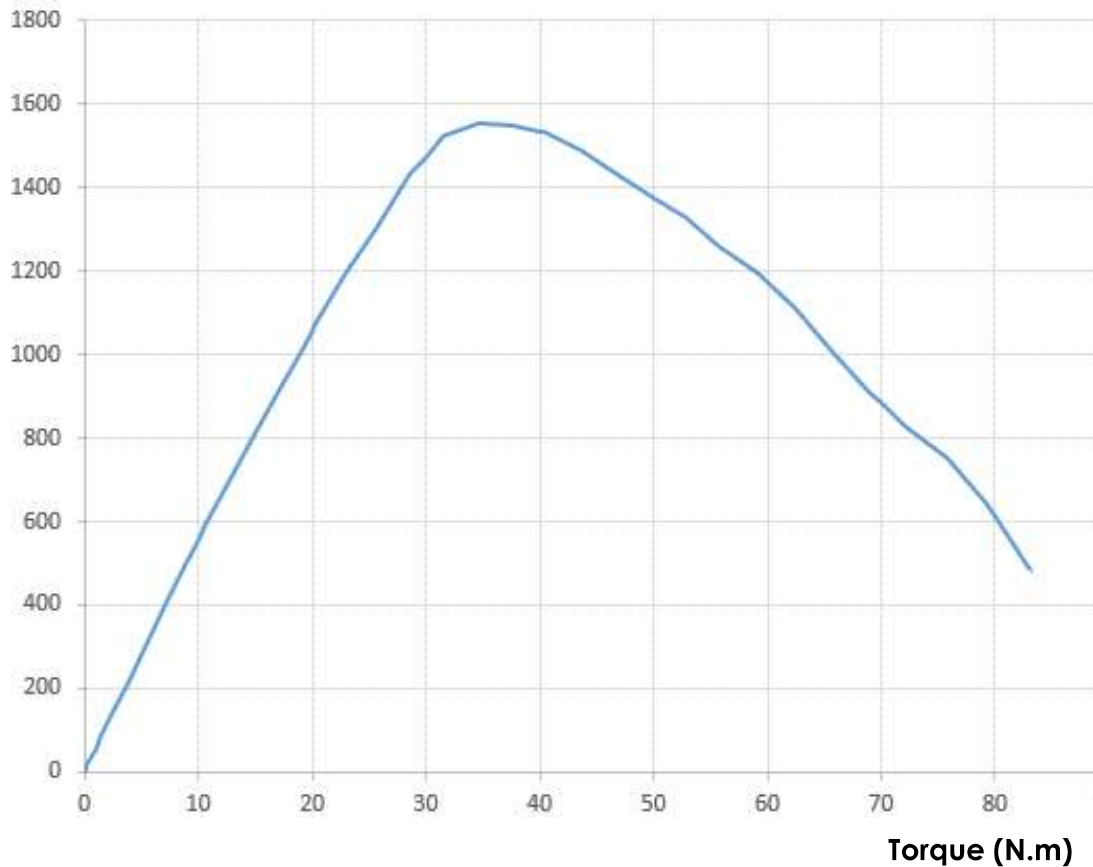


Motor Specifications

Motor Outer Diameter: 276.5mm
 Shaft Length: 276mm
 Brake Size: 110mm
 Brake Type: Regular Brakes (shoe type)
 Tyre Types: Tubeless
 Suitable Tyre Size: 90/100-10

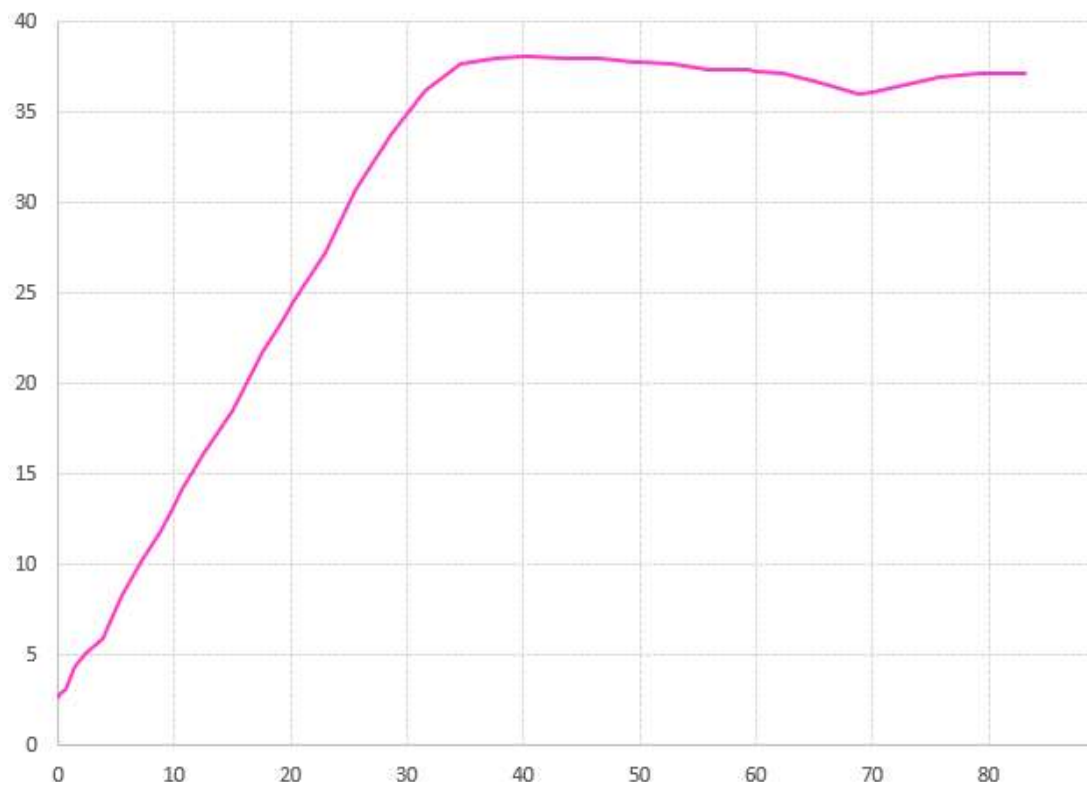
**Output Power (W)
vs Torque (N.m)**

Output Power (W)



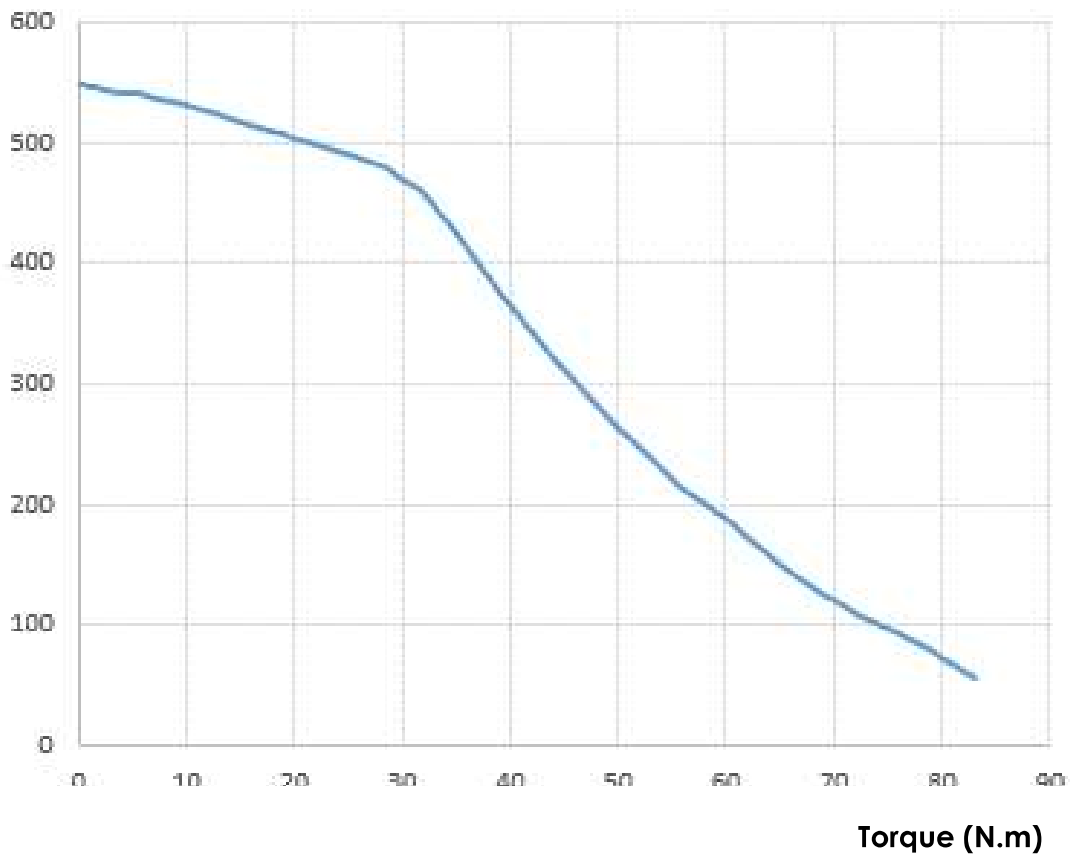
**Current (A)
vs Torque (N.m)**

Current (A)



**Speed (rpm)
vs Torque (N.m)**

Speed (rpm)



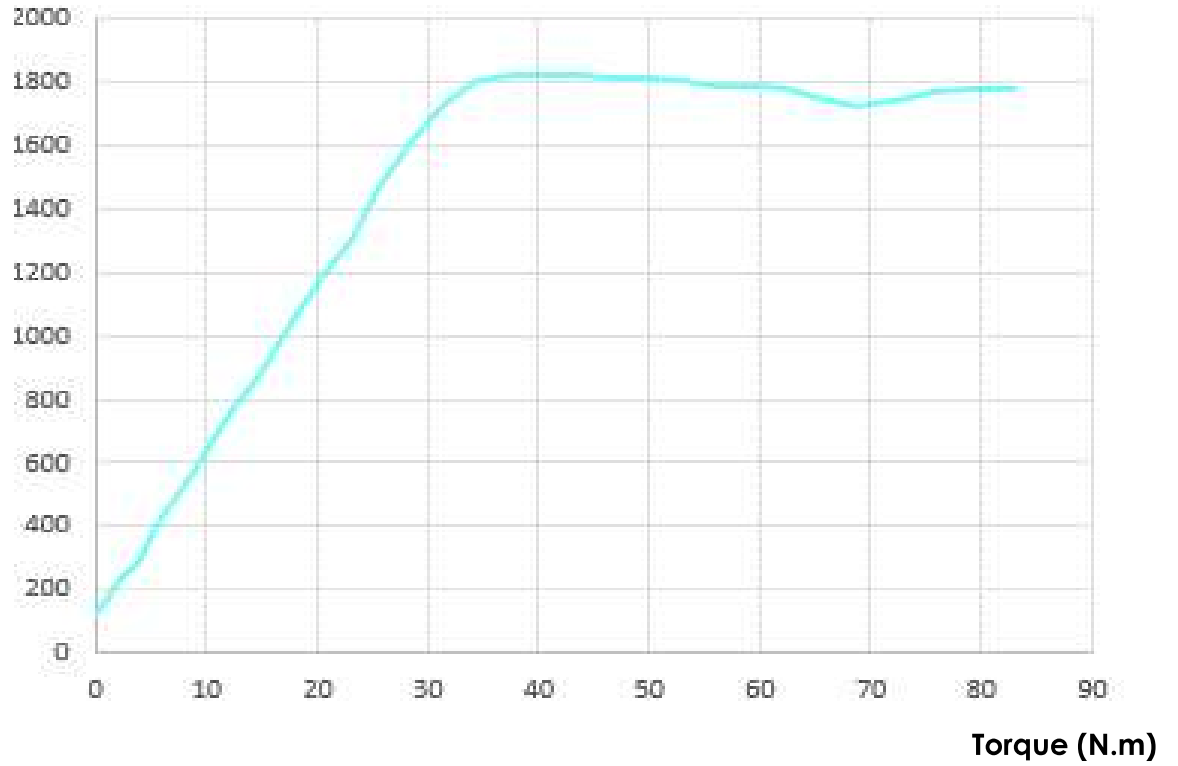
**Efficiency (%)
vs Torque (N.m)**

Efficiency (%)



**Input Power (W)
vs Torque (N.m)**

Input Power (W)



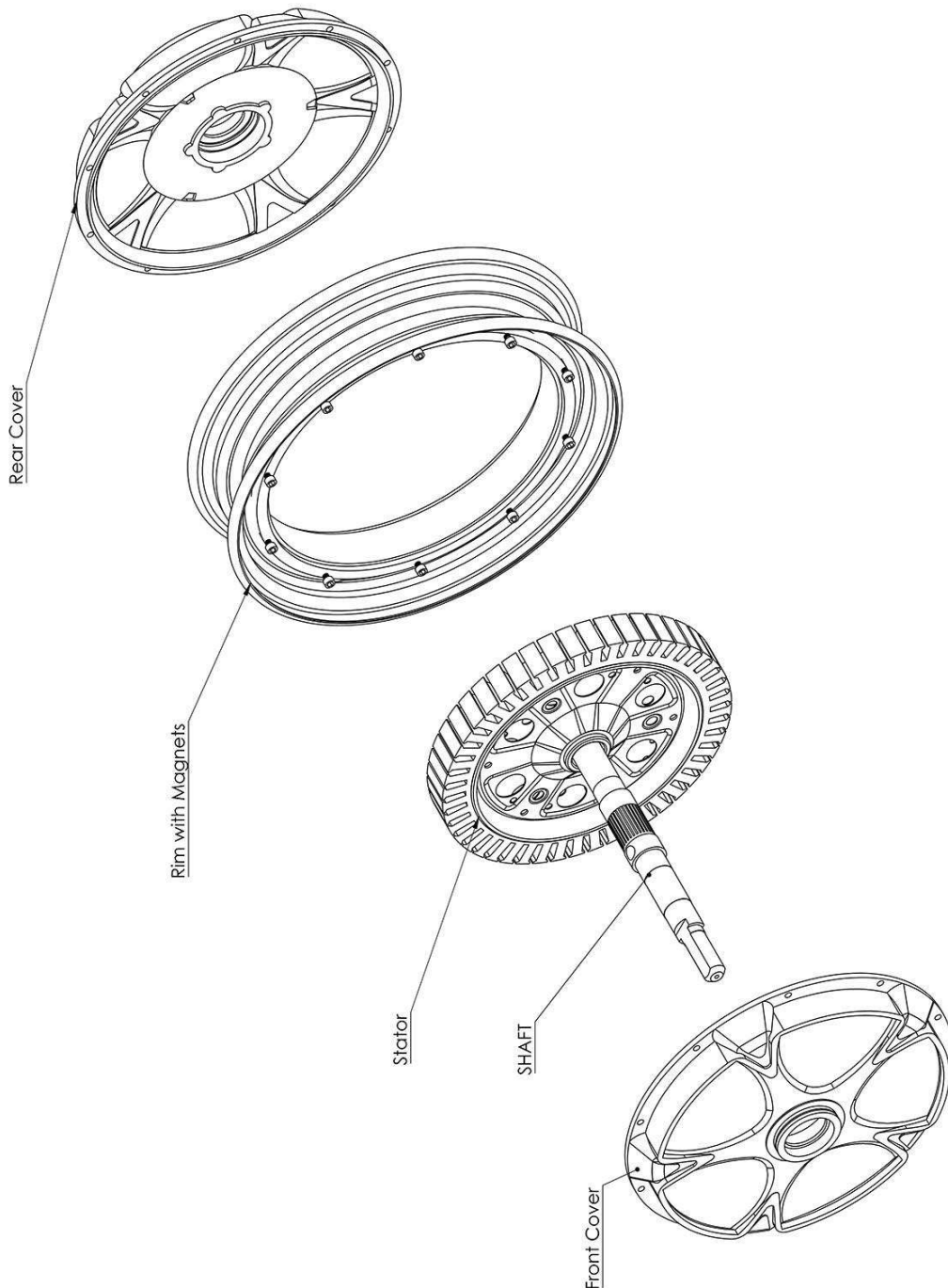
Technical Data

	Voltage (V)	Current (A)	Input Power (W)	Torque (N.m)	Speed (rpm)	Output Power (W)	Efficiency (%)	Time (s)
1	47.955	2.6867	128.84	0.1	547.6	6.0297	4.7	2.3910
2	47.974	3.6052	172.96	1.0	546.6	57.650	33.3	4.7810
3	47.989	5.0169	240.76	2.4	544.4	135.93	56.5	6.3750
4	47.996	5.8821	282.32	3.8	541.8	214.24	75.9	7.1720
5	47.996	8.2729	397.07	5.5	540.7	308.61	77.7	7.9850
6	47.997	10.101	484.80	7.1	537.3	400.83	82.7	8.7810
7	47.998	11.773	565.09	8.8	533.7	494.01	87.4	9.5940
8	47.996	14.101	676.79	10.7	529.4	593.47	87.7	10.391
9	47.994	16.123	773.79	12.6	524.6	692.89	89.5	11.188
10	47.994	18.415	883.80	15.0	518.1	812.88	92.0	11.985
11	47.991	21.639	1038.5	17.6	510.1	937.63	90.3	12.781
12	47.991	22.991	1103.4	18.9	506.7	1000.0	90.6	13.168
13	47.989	27.188	1304.7	23.0	494.9	1193.3	91.5	14.375
14	47.988	30.583	1467.6	25.6	487.2	1306.5	89.0	15.172
15	47.983	37.563	1802.4	34.6	429.7	1555.3	86.3	17.578
16	47.986	37.914	1819.4	37.6	394.1	1550.3	85.2	18.391
17	47.983	37.950	1820.9	43.7	325.1	1487.7	81.7	19.985
18	47.987	37.897	1818.5	46.5	295.6	1440.7	79.2	20.781
19	47.989	37.761	1812.1	49.5	266.5	1381.7	76.2	21.594
20	47.984	37.286	1789.2	59.3	192.3	1194.9	66.8	23.985
21	47.984	37.238	1786.9	60.0	187.3	1175.8	65.8	24.174
22	47.986	36.542	1753.5	65.5	148.0	1015.2	57.9	25.578
23	47.986	36.084	1731.5	70.0	120.6	882.28	51.0	26.641
24	47.987	37.127	1781.6	79.3	77.3	641.55	36.0	28.781
25	47.987	37.125	1781.5	80.0	73.2	612.01	34.3	28.928
26	47.987	37.118	1781.2	83.1	55.3	481.17	27.0	29.578

Specifications

Rated Power (Watts)	1000
Rated Torque (N.m)	18
Peak Torque (N.m)	83
Operating Voltage (Volts)	48
Rated Current (A)	23
Peak Current (A)	38
Rated RPM	510

Exploded View



Isometric View

