



QSMOTOR Quotation & SPEC

QS 5000W 171 Mid Drive BLDC PMSM Non-Hub Motor

No.	Parameter	Value	Units	Notes	Picture
1	Motor Type	BLDC PMSM Inner Rotor Non-Hub Motor			
2	Axle Configuration	Single Axle			
3	Motor Diameter	171	mm		
4	Magnet Height	60	mm		
5	Number of Pole Pairs	5	Pairs	10 pcs	
6	Rated Output Power	5000	Watt		
7	Peak Output Power	10000	Watt		
8	Speed (depends on reduction ratio)		KPH	Optional: 5-150KPH	
9	Voltage	48	Volt	Optional: 48-144V	
10	Max RPM	3711.1	RPM	Optional: 3000-5000	
11	kV	77.31	RPM/V		
12	Continuous Input Current	111.1	Ampere		
13	Peak Input Current	111.1	Ampere	200A Peak, 300A in fe	
14	Peak Phase Current	450	Ampere	600A in few second	
15	Rated Torque	16.7	N.m		
16	Max Torque	≥29.0	N.m		
17	Max. Efficiency	91.2	%		
18	Efficiency 80 % @ RPM	1634.6~3395.5	RPM		
19	Number of Motor Phases	3	-		
20	Hall Sensors	1	Set		
21	Hall Sensor Phasing	120	°		
22	Hall Working Voltage	5	V	12(limitation)	
23	Cross Section of Phase Wire	16	mm²		
24	Max. Operating Temperature	70	°C	Peak 120°C	
25	Waterproof Grade	IP54	-		
26	Color	Silver			
27	N.W./G.W.	13.9/15.5	kg		
28	Package	43*43*34	cm³	Carton	
		Price			
sample/order		\$468.00			
5-19pcs/order		\$416.70			

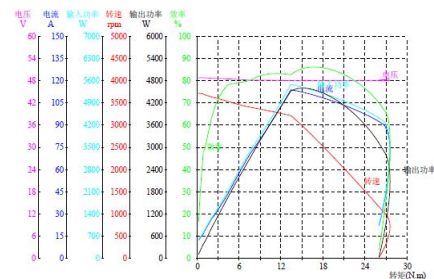
Payment terms: T/T, Money Gram, Western Union 100% in advance (for sample)

Valid time: 30 days

Producing Time: 20-30 working days after receiving the payment.

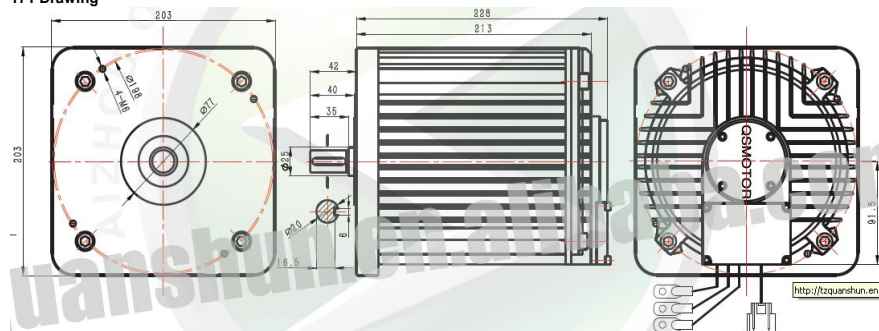
P.S.: We could calculate the international delivery cost accordingly within your detailed address (include ZIP code).

Performance Curve/Test Report (for reference)



特征点	电压 V	电流 A	输入功率 W	转矩 N.m	转速 rpm	输出功率 W	效率 %
不加载点	48.78	12.40	604.9	0.2	3711.1	99.46	16.4
最高效率点	47.93	111.1	5326	16.7	2780.6	4862	91.2
最大输出功率点	47.93	111.1	5326	16.7	2780.6	4862	91.2
最大转矩点	48.04	77.35	3716	29.0	742.2	2261	60.8
结束点	48.28	22.04	1064	26.0	15.9	43.37	4.0

171 Drawing

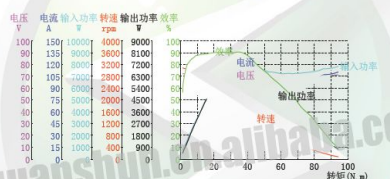


Application





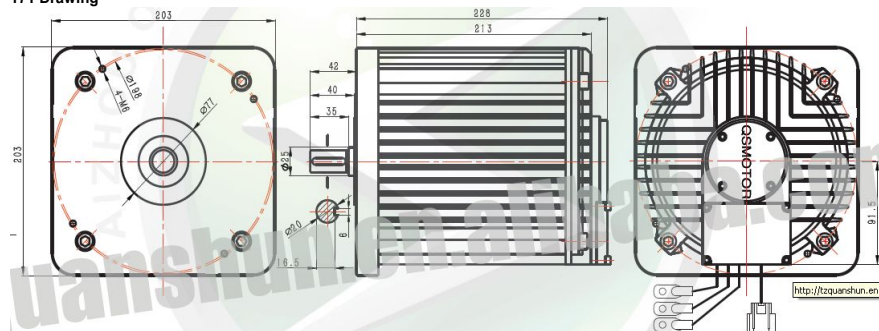
Performance Curve/Test Report (for reference)



特征点	电压 V	电流 A	输入功率 W	转矩 N.m	转速 rpm	输出功率 W	效率 %
不加载点	72.12	10.99	788.4	1.4	3075.3	461.0	58.4
最高效率点	70.92	11.77	835.4	36.6	2009.0	7718	92.3
最大输出功率点	70.86	12.84	8677	32.1	2322.9	7811	90.0
最大转矩点	71.02	110.2	7831	94.2	74.9	739.2	9.4
堵转点	71.02	110.2	7831	94.2	74.9	739.2	9.4

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171 Drawing



Application

