

BNH1(10020)-Drone Motor

Specifications



Technical Parameters

Max Thrust	28 Kgf
Recommended Battery	12S
Recommended Take off Weight	20 Kg
Total Weight	850 g
Lead Wire Length	100 mm

ESC

IdeaForge

Propeller

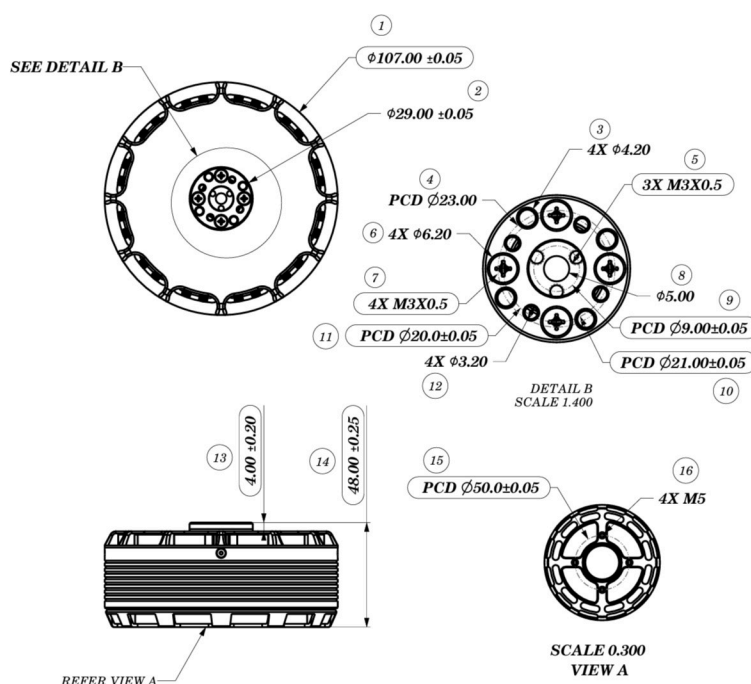
Diameter X Thread Pitch G30*10.5

Total Weight 95 g

Motor

Stator Size	Ø100 X 20 mm
KV Rating	160 KV
Motor Size	Ø107 X 48 mm
Max Power	6990 W
Peak Current	160 A

Load Performance Parameters



Performance Test											
Model	ESC	Propeller	Power Source	Voltage (V)	Throttle % (800-2000)	Servo	Power (W) O/L	Current (A) O/L	RPM O/L	Thrust (g)	Efficiency (g/w)
BNH1 160KV (10020)	IdeaForge	G30*10.5	DC Supply (48V-DC)	48	22	1060	240	5.0	1666	2375	9.9
					31	1170	480	10.0	2226	4253	8.9
					36	1230	720	15.0	2590	5740	8.0
					40	1280	960	20.0	2860	6938	7.2
					44	1330	1200	25.0	3104	8180	6.8
					48	1373	1440	30.0	3303	9193	6.4
					52	1418	1680	35.0	3494	10175	6.1
					62	1548	1920	40.0	3644	11216	5.8
					58	1490	2160	45.0	3780	11971	5.5
					61	1535	2400	50.0	3933	13022	5.4
					63	1560	2640	55.0	4038	13625	5.2
					66	1592	2880	60.0	4187	14650	5.1
					69	1623	3120	65.0	4287	15294	4.9
					70	1645	3360	70.0	5085	15836	4.7
					73	1673	3600	75.0	5245	16629	4.6
					74	1693	3840	80.0	5309	17305	4.5
					76	1710	4128	86.0	5468	18170	4.4
					77	1727	4416	92.0	5632	19079	4.3
					79	1744	4752	99.0	5801	20033	4.2
					80	1762	5088	106.0	5975	21034	4.1
					82	1779	5376	112.0	6155	22086	4.1

The bench test data provided above is for reference purposes only, conducted at ambient room temperature. Actual results may vary depending on environmental and field conditions.



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