



Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
2215-24S	3.3 " 84mm	709g	2,500	714.00
2220-24S	4.7 " 119mm	964g	3,200	880.00

Motor type: inrunner	Finned: Optional	Gearbox(es): P42, P62
Poles: 8p	Sealed: Optional	Shaft size(s): 8mm
Slots: 24s	Sensored: Optional	Max RPM: 30,000

2215-24S				Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts	
				inch:	2.3	3.3	25 ozs.	2,500	5,000
				mm:	58	84	708g		
Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A		Max Volts (max rpm/Kv)	Max Amps (max watts/volts)		
2215/24/3Y/195	195	0.075	1.200	49.069	6.949	154	33		
2215/24/2Y/290	290	0.036	1.700	32.994	4.672	103	48		
2215/24/1.5Y/385	385	0.018	2.200	24.853	3.519	78	64		
2215/24/1Y/575	575	0.009	3.200	16.641	2.357	52	96		

2220-24S

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	2.3	4.7	34 ozs.	3,200	6,400
mm:	58	119	962g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
2220/24/3Y/145	145	0.080	1.200	65.989	9.345	207	31
2220/24/2.5Y/172	172	0.060	1.500	55.630	7.878	174	37
2220/24/2Y/215	215	0.044	1.700	44.504	6.302	140	46
2220/24/1.5Y/290	290	0.022	2.200	32.994	4.672	103	62
2220/24/1Y/430	430	0.011	3.200	22.252	3.151	70	92

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DOMESTIC CONTENT / COUNTRY OF ORIGIN

Motors may be assembled with varying degrees of domestic (USA) content. Please contact to discuss content requirements, solutions, and resulting pricing variances, if any. Baseline motors are assembled and or tested in the US or Mexico from components sourced globally, including China.

QUALITY CONTROL

Our factory is ISO 9001 certified. Quality documentation available on a custom order basis.

POWER RATINGS (Watts):

Continuous rating is the power the motor can deliver while maintaining the external housing temperatures below 100C.

MAX power rating is the power the motor can deliver beginning with motor at a temp of 20C until it reaches it's limit temperature of 100C. The exact maximum power output of a motor is dependent on a number of variables including air flow, ambient air temperature, contact cooling, etc. 100C rating is measured on the outside of the case, which allows for higher internal temperatures and a small measure of overhead.

MAX VOLTAGE

Limited by kv (RPMs per volt) times the applied voltage. Max voltage must be kept below the voltage which will spin the motor over max rpm for the motor series.

MAX AMPERAGE

See power ratings above.

MTBF RATINGS:

When used within the constraints described above, BLDC motors' primary "wear" item(s) are the bearings supporting the shaft. Bearing life is inversely affected by speed, temperature, radial and axial loads. While an MTBF figure can be generated, it would be rendered invalid by excursions beyond prescribed temperatures or load limits – such as prop strikes or side loads. MTBF must be determined on a case by case basis, and even then it would be subject to numerous exceptions.

COMPONENT SPECIFICATIONS

Winding temperature: 180C
Magnet grade: 180C UH grade
Bearings: Japanese SPB bearings

Specifications subject to change without notice.

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