

#### Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	<b>Continuous Watts</b>	Base Price
2020	3.7" 93mm	624g	3,500	

#### High pole count for best efficiency at 4,000-6,000 rpms

Motor type: Poles: Slots:	-	Finned: Sealed: Sensored: call					Gearbox(es): P32, P42 Shaft size(s): 8mm std, 6mm Max RPM: 40,000			
2020					Diam.	Length	Weight	Max Co Wati		
				inch:	2.0	3.7	22 ozs.	3,50	00 7,000	
				mm:	51	93	623g			
Motor		KV	Rm Ohms	6.0	104	Torque ( mNm/A	Constant	Max Volts	Max Amps	
2020/6D/23	2	232	0.084	lo @ 0.840		41.243	inOz/A 5.841	(max rpm/Kv) 172	(max watts/volts) 41	
2020/5.75D	/243	243	0.077	0.877		39.376	5.576	165	43	
2020/5.5D/2	254	254	0.071	0.916	5	37.671	5.335	157	44	
2020/3Y/25	8	258	0.063	0.933	3	37.087	5.252	155	45	

# NECIMOTORS

2020			D	iam.	Length	Weight	Max Co Watt	nt. Max Peak s Watts
			inch:	2.0	3.7	22 ozs.	3,50	
			mm:	51	93	623g		
Mataz		Due Ohue e			Torque Constant		Max Volts	Max Amps
Motor <b>2020/5.25D/266</b>	кv 266	Rm Ohms 0.064	lo @ 10 0.960	UV	mNm/A 35.971	inOz/A 5.094	(max rpm/Kv) 150	(max watts/volts) 47
2020/5D/279	279	0.058	1.008		34.295	4.857	143	49
2020/2.75Y/282	275	0.058	1.000		33.931	4.805	142	49
2020/4.75D/294	292	0.053	1.010		32.546	4.609	136	51
2020/4.5D/310	310	0.047	1.120		30.866	4.371	130	54
2020/2.5Y/310	310	0.044	1.120		30.866	4.371	129	54
2020/4.25D/328	328	0.042	1.186		29.172	4.131	122	57
2020/2.25Y/344	344	0.035	1.244		27.815	3.939	116	60
2020/4D/349	349	0.037	1.260		27.417	3.883	115	61
2020/3.75D/372	372	0.033	1.344		25.722	3.642	108	65
2020/2Y/388	388	0.028	1.400		24.661	3.492	103	68
2020/3.5D/399	399	0.029	1.440		23.981	3.396	100	70
2020/3.25D/429	429	0.025	1.551		22.304	3.159	93	75
2020/1.75Y/443	443	0.021	1.600		21.599	3.059	90	78
2020/3D/465	465	0.021	1.680		20.577	2.914	86	81
2020/2.75D/507	507	0.018	1.833		18.873	2.673	79	89
2020/1.5Y/517	517	0.016	1.867		18.508	2.621	77	90
2020/2.5D/558	558	0.015	2.016		17.148	2.428	72	98
2020/2.25D/620	620	0.012	2.240		15.433	2.185	65	109
2020/1.25Y/620	620	0.011	2.240		15.433	2.185	65	109
2020/2D/698	698	0.009	2.520		13.708	1.941	57	122
2020/1Y/775	775	0.007	2.800		12.346	1.748	52	136
2020/1.75D/797	797	0.007	2.880		12.006	1.700	50	139
2020/1.5D/930	930	0.005	3.360		10.289	1.457	43	163
2020/0.75Y/1033	1,033	0.004	3.733		9.263	1.312	39	181
2020/1.25D/1116	1,116	0.004	4.032		8.574	1.214	36	195
2020/1D/1395	1,395	0.002	5.040		6.859	0.971	29	244
2020/0.5Y/1550	1,550	0.002	5.600		6.173	0.874	26	271
2020/0.75D/1860	1,860	0.001	6.720		5.144	0.728	22	326
2020/0.5D/2790	2,790	0.001	10.080		3.430	0.486	14	488
2020/0.25Y/3100	3,100	0.000	11.200		3.087	0.437	13	543

# NEGMOTORS

2020				Diam.	Length	Weight	Max Co Watt	
			inch:	2.0	3.7	22 ozs.	3,50	0 7,000
			mm:	51	93	623g		
Motor	KV	Rm Ohms	lo @	10v	Torque ( mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
2020/0.25D/5580	5,580	0.000	20.160	)	1.715	0.243	7	977



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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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