

Stator lengths available:

Model	Length (in)	/ (mm)	Weight(g)	Continuou	s Watts	Base Price	ce		
3020	4.5 "	114mm	1934g	10,00	00	1,098.0	0		
3030	5.5"	140mm	2900g	15,00	00	1,649.0	00		
Motor type:	inrunner		Finne	d: Optional		Ge	earbox(es):	P42, P62	
Poles:	4p		Seale	d: Optional	l	Sł	naft size(s):	12mm	
Slots:	12s		Sensore	d: Optional			Max RPM:	20,000	
3020				Diam. inch: 3.1 mm: 79	Length 4.5 114	Weight 68.2 ozs. 1930g	W	Cont. Max Peak atts Watts ,000 20,000	
Motor		κv	Rm Ohms	lo @ 10v		Constant inOz/A	Max Volts (max rpm/Kv	Max Amps /) (max watts/volts)	
3020/4Y/16	65	165	0.041	1.500	57.990	8.212	121	165	
3020/3Y/23	33	233	0.022	2.000	41.066	5.815	86	233	
3020/2.5Y/	292	292	0.015	2.400	32.769	4.640	68	292	
3020/2Y/35	50	350	0.011	3.000	27.338	3.871	57	350	

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3020		Diam inch: 3.1 mm: 79	. Length Weight 4.5 68.2 ozs. 114 1930g	Max Cont. Max Peak Watts Watts 10,000 20,000
Motor 3020/1.5Y/535	KV Rm O 535 0.0		Torque Constant mNm/A inOz/A 17.885 2.533	Max Volts Max Amps (max rpm/Kv) (max watts/volts) 37 535
3020/1Y/700	700 0.0	02 6.000	13.669 1.936	29 700
3030		Diam inch: 3.1 mm: 79	. Length Weight 5.5 102.3 ozs. 140 2895g	Max Cont. Max Peak Watts Watts 15,000 30,000
Motor	KV Rm O	ms lo@10v	Torque Constant mNm/A inOz/A	Max Volts Max Amps (max rpm/Kv) (max watts/volts)
3030/3Y/155	155 0.0	32 2.000	61.732 8.742	129 233
3030/2.5Y/194	194 0.0	23 2.400	49.322 6.985	103 291
3030/2Y/233	233 0.0	14 3.000	41.066 5.815	86 350
3030/1.5Y/356	356 0.0	08 4.000	26.878 3.806	56 534
3030/1Y/466	466 0.0	6.000	20.533 2.908	43 699



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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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