



Stator lengths available:

Model	Length (in)	mm	Continuous Watts	Base Price
3810	0.9	23mm	400	120.00
3814	1.1	27mm	500	142.00
3819	1.3	32mm	600	153.00
3825	1.6	40mm	700	164.00
3834	1.9	47mm	800	175.00

Motor type: outrunner

Poles: 22p

Slots: 24s

Finned:

Sealed:

Sensored: Optional

Gearbox(es): call

Shaft size(s): 6mm

Max RPM: 20,000

3810

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	0.9	3.7 ozs.	400	800
mm: 44	23	105g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A	Max Volts	Max Amps	Stock Status
3810	1,355	0.020	2.0	7.062 1.000	15	54	

3814

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.1	4.7 ozs.	500	1,000
mm: 44	27	133g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
3814	950	0.024	1.7	10.072	1.426	21	48	

3819

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.3	5.8 ozs.	600	1,200
mm: 44	32	164g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
3819	705	0.029	1.4	13.572	1.922	28	42	

3825

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.6	7.1 ozs.	700	1,400
mm: 44	40	201g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
3825	545	0.036	1.2	17.557	2.486	37	38	

3834

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.9	9.2 ozs.	800	1,600
mm: 44	47	260g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
3834	395	0.046	1.1	24.224	3.430	51	32	

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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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