



CM 4320 FPV Brushless DC Motor For Disruptive Test 500 V

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: CM 4320
- Price: Negotiable



Product Specification

- Motor Model: SWIFT CM4320 V1.0
- Motor Size: D:51 X73.2 Mm
- Propeller Mounting Holes: M6 Nut
- Shaft Diameter: IN: 6 Mm
- Bearing: 606 ZZ*3
- Number Of Pole Pairs: 7
- Varnished Wire Degree: 220°C
- Motor Balance: 180°C
- Cable Length: 750 Mm 14# Awg Silicone
- Motor Mounting Holes: D:30 M4x4
- Disruptive Test: 500 V
- Highlight: **CM 4320 Brushless DC Motor,**
FPV Brushless DC Motor,
CM 4320 FPV Brushless DC Motor



More Images



Product Description

CM 4320 FPV Brushless DC Motor

The CM Series is the highest dust level motor and the best heat dissipation among FPV motors, specially designed for film shooting work.

1. Two ultra-thin stainless steel dust filters are added inside the stator for proactive heat dissipation design.
2. The split exhaust blade is added inside the rotor.
3. Providing robust power for 3-12S, 13X10X3 inch propeller X4 X8 cinematic drones with heavy payloads

High efficiency: The CM 4320 motor is known for its efficiency, which is critical to maximizing flight time and overall performance, especially in heavy or long-range UAVs.

High power and torque: With a larger stator size, the CM 4320 offers greater power and torque, making it ideal for drones carrying heavier payloads, such as larger cameras or other equipment.

Durability: To meet the demands of high-power applications, the motor features high-quality materials and construction to ensure long-term reliability.

Precise control: Electronic commutation in brushless DC motors provides precise control of speed and torque, which are essential for stable and responsive flight

SWIFT CM4320

ENERGY EFFICIENT 380KV
X8 FILM CIMATIC LIFTER MAKER

340g

OPTIMIZED
WEIGHT

7.90kgf

MAXIMUM
THRUST

MAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS



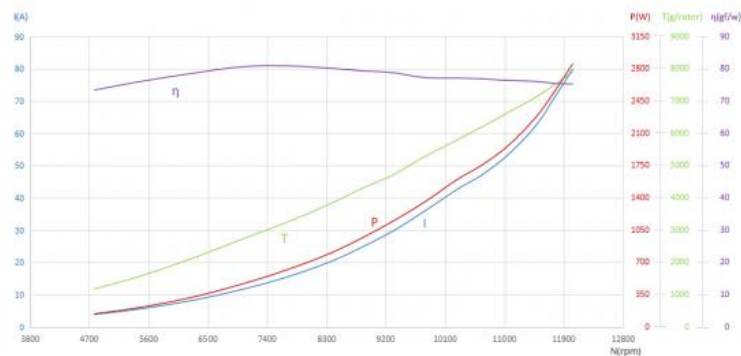
MAD SWIFT CM4320 925KV 13x10x3 Carbon Fiber

12S

Analytical Graph of Motor Operation

I - Current, P - Input Power, η - Electrical Efficiency, T - Thrust, N - Rotational Speed

The data above was measured with an input voltage of 24 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

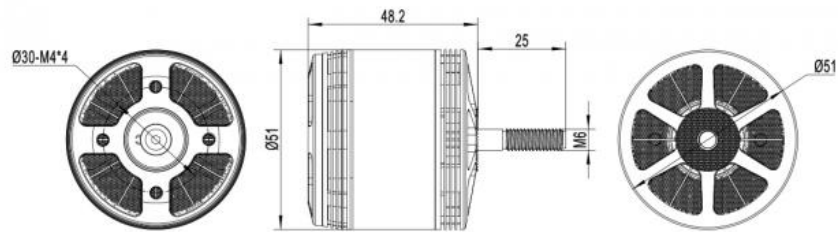


Motor Data

Motor Model	MAD Swift CM4320 V1.0	Number of pole pairs	7
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:50 x 56.5 mm	Magnet Degree	180°C
Degree of Protection	IP45	Cable Length	750 mm 14# Awg(Black/Red) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	≤5 mg
Propeller Mounting Holes	M6 Nut	Motor Balance	≤10 mg
Shaft Diameter	IN: 6 mm	Motor Mounting Holes	D:30 M4x4
Bearing	EZO 606 ZZ *3	Disruptive test	500 V
Additional Accessories	M3*8mm *4 Cup head Screws , M6 Nut*1 , Propeller Plate *1 , MAD Sticker*6		

Specifications

RPM/V	380 KV	Nominal Voltage	12S lipo battery
No Load Current	2.6A/20V	Internal resistance	46.5mΩ
Motor Weight	340 g	Product Boxed Weight	-
Maximum Current	79.8 A	Maximum Power	3788W
Maximum thrust	7.9 kg	Maximum Torque	2.3 Nm
Recommended ESC	-	Recommended Propellers	13x10x3



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12S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	44.15	3.62	159.8	114.1	0.242	4502	1032	71.4	6.5
35	44.07	5.21	229.6	170.1	0.316	5141	1364	74.1	5.9
40	43.98	7.91	347.9	268.9	0.431	5961	1871	77.3	5.4
45	43.87	11.17	490.0	387.6	0.553	6695	2386	79.1	4.9
50	43.75	15	656.3	521.7	0.676	7368	2897	79.5	4.4
55	43.63	18.54	808.9	644.7	0.779	7902	3306	79.7	4.1
60	43.44	23.69	1029.1	816.1	0.919	8480	3834	79.3	3.7
65	43.28	28.73	1243.4	977.3	1.039	8986	4243	78.6	3.4
70	43.06	35.11	1511.8	1170.2	1.170	9552	4776	77.4	3.2
75	42.87	40.53	1737.5	1324.0	1.258	10050	5203	76.2	3.0
80	42.63	46.38	1977.2	1504.6	1.369	10498	5729	76.1	2.9
85	42.34	54.36	2301.6	1745.3	1.537	10845	6266	75.83	2.7
90	42.05	61.34	2579.3	1945.3	1.660	11191	6650	75.42	2.6
95	41.74	71.24	2973.6	2233.1	1.866	11426	7093	75.1	2.4
100	41.46	75.94	3148.5	2355.1	1.932	11644	7334	74.8	2.3

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12S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	50.02	3.83	191.6	140.6	0.281	4777	1174	73.4	6.1
35	49.93	5.53	276.1	209.8	0.367	5458	1563	76	5.7
40	49.85	8.11	404.3	317.4	0.486	6236	2105	78.5	5.2
45	49.68	11.54	573.3	462.1	0.630	7005	2705	80.6	4.7
50	49.52	15.41	763.1	617.4	0.766	7692	3240	80.9	4.2
55	49.31	20.11	991.6	795.3	0.910	8345	3803	80.2	3.8
60	49.16	24.69	1213.8	963.7	1.042	8836	4287	79.4	3.5
65	49.01	29.7	1455.6	1147.0	1.177	9308	4710	78.8	3.2
70	48.85	35.87	1752.2	1354.5	1.322	9788	5278	77.3	3.0
75	48.64	42.77	2080.3	1603.9	1.488	10295	5804	77.1	2.8
80	48.46	47.1	2282.5	1755.2	1.573	10658	6198	76.9	2.7
85	48.22	53.24	2567.2	1961.4	1.695	11048	6638	76.4	2.6
90	47.89	62.48	2992.2	2277.0	1.894	11480	7123	76.1	2.4
95	47.58	70.87	3372.0	2545.9	2.069	11752	7495	75.5	2.2
100	47.46	79.81	3787.8	2852.2	2.263	12036	7903	75.3	2.1

Use the power system properly according to the following performance parameters. It is recommended to fly under the recommended take-off weight for best performance. Do not fly overweight. Take-off weight exceeding 1.2 times the maximum recommended value can seriously affect performance and safety.

Our Services

1. We provide 1 Year Warranty. Buy with confidence.
2. If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact me before you return it.
3. If item is defective in 3 months, We will send you a replacement without charger, or offer refund after we receive the defective item.
4. If item is defective after 3 months, you can still send it back to us. We will send you a new one after receiving the defective item. But you have to pay the extra shipping fee.



FAQ

- Q1: Do you support OEM/ODM?
A1: Yes. We can print your logo on the product.

Q2: About samples.

A2: Under normal circumstances, samples will be ready within 7 days, and 10-20 days for OEM/ODM orders. Sample fee and shipping will be charged.

Q3: What is the delivery time?

A3: For regular orders, we can ship within 15 days, for OEM/ODM, we can ship within 25-45 days (depending on the quantity). In the event of delays, we will notify you in advance of the status and resolution.

Q4: What is the minimum order quantity?

A4: There is no MOQ for wholesale (1 piece accepted), including OEM/ODM.

Q5: What are your payment terms?

A5: L/C.TT100%.

Q6: Can you reduce the shipping cost?

A6: When calculating the shipping cost for you, we always choose the cheapest and safest express. Although we have partnerships with shipping companies, we can't keep costs down because it's not us who get paid. If you think it's expensive for you. You can always make your own choice.

Q7: Return policy.

A7: If you want to replace the received item, you must contact us within 7 days after receiving the item. Returned items should be in their original condition and you should pay for additional shipping.



Guangzhou Gesai Intelligent Electronic Technology Co., Ltd.



Kellyyangjing2021@outlook.com



uav-vtoldrone.com

Fuli Yingtong Building, the Pearl River New Town, Tianhe District, Guangzhou, Guangdong, China