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8116 EEE brushless DC motor

Basic Information

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: 8116 EEE 100 KVPrice: Negotiable



Product Specification

Motor Model: 8116 EEE V1.0
Motor Size: D:87.2 X42 Mm
Degree Of Protection: Rain Protection
Propeller Mounting Holes: TD:23 M4x4
Bearing: EZ0 6802ZZ*2

• Number Of Pole Pairs: 2

Cable Length: 150 Mm 16# Awg(Black) Silicone
 Motor Mounting Holes: D:30 M3x4, D:32 M4x4,D:50 M3x4

• Disruptive Test: 500 V

• Highlight: Full Duplex drone video transmitter,

drone video transmitter 20km,

20km uav radio link



More Images











Product Description

8116 EEE brushless DC motor

It is old style popular power motor in the line. a lot of designers not only want this motor have same efficient with 8108 but also want this motor is powerful. now it is mostly used to design robotic arm motor. it is replaced by the M9C12 100KV and 90KV.

High Efficiency: Brushless design for superior efficiency, leading to reduced energy consumption and extended operational times.

High Torque: Capable of delivering substantial torque, suitable for demanding tasks.

Durability: Designed with fewer moving parts compared to brushed motors, resulting in longer lifespan and lower maintenance needs.

Precision Control: Ideal for applications that require accurate speed and position control.

Advanced Cooling: Enhanced cooling systems to manage high power outputs and prevent overheating.

ENERGY EFFICIENT 100KV ENTHUSIASTS EXTREME EDITION

4.0~5.4 kgf

RECOMMENDED HOVER THRUST

11.5 kgf

MAXIMUM MAXIMUM BATTERVLENE
THRUST ARR PRESSURE

OPTIMIZED 460 g

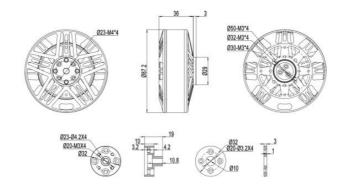
EFFICIENCY > 78%





| Motor Model | MAD 8116 EEE V1.0 | Number of pole pairs | 21 | |
|------------------------------|------------------------|-----------------------|---------------------------------|--|
| Stator | TAIWAN / Anticorrosive | Varnished wire Degree | 180°C | |
| Motor Size | D:87.2 × 42 mm | Magnet Degree | 150°C | |
| Degree of Protection | Rain protection | Cable Length | 150 mm 16# Awg(Black) silicone | |
| Centrifugal Heat Dissipation | Independent | Rotor Balance | ≤10 mg | |
| Propeller Mounting Holes | D:23 M4×4 | Motor Balance | ≤20 mg | |
| Shaft Diameter | IN: 15 mm | Motor Mounting Holes | D:30 M3×4, D:32 M4×4, D:50 M3×4 | |
| Bearing | EZO 6802ZZ*2 | Disruptive test | 500 V | |

| RPM/V | 100 KV | Nominal Voltage | 12S lipo battery | |
|---------------------|--|------------------------------|---------------------------------|--|
| No Load Current | 0.9A/20V | Internal resistance | 80mΩ | |
| Motor Weight | 460 g | Product Boxed Weight | 760g (110 x 110 x 65 mm) | |
| Maximum Current | 38.3 A | Maximum Power | 1822W | |
| Maximum thrust | 11.5 kg | Maximum Torque | 4.1 Nm | |
| Recommended ESC | MAD AMPX 40A (5-14S) | Recommended Propellers | 28x8.4, 29x8.7, 30x10.0, 32x9.6 | |
| UAV take-off weight | 125-29"/ 16kgQuadcopter 24kgHexacopter 32kgOctocopter | Single rotor take-off weight | 4.0kg ~ 5.4kg | |



| MAD 81 | MAD 8116 EEE 100KV FLUXER PRO 28x8.4 MATT AMPX 40A (5-14S) | | | | | | 125 | MAX 79℃ | |
|-----------------|--|----------------|-----------------------|---------------------|-----------------|------|----------------|-------------------|----------------------|
| Throttle (%) | Voltage [V] | Current (A) | Input Power [W] | Output Power [W] | Torque [N×m] | RPM | Thrust (gf) | Efficiency [%] | Efficiency [gf/W] |
| 30 | 48.13 | 1.38 | 66.1 | 49.2 | 0.335 | 1401 | 1038 | 74.29 | 15.6 |
| 35 | 48.12 | 1.95 | 93.2 | 73.8 | 0.435 | 1621 | 1368 | 79.17 | 14.6 |
| 40 | 48.13 | 2.58 | 123.8 | 101.5 | 0.535 | 1812 | 1727 | 81.99 | 13.9 |
| 45 | 48.11 | 3.43 | 164.8 | 137.6 | 0.656 | 2005 | 2124 | 83.47 | 12.9 |
| 50 | 48.1 | 4.57 | 219.1 | 188.0 | 0.805 | 2231 | 2578 | 85.73 | 11.7 |
| 55 | 48,1 | 6.09 | 292.3 | 256,5 | 0.997 | 2456 | 3164 | 87.71 | 10.8 |
| 60 | 48.08 | 7.64 | 366.9 | 325.4 | 1,170 | 2655 | 3716 | 88.65 | 10.1 |
| 65 | 48.02 | 9.29 | 445.5 | 399.4 | 1,340 | 2846 | 4232 | 89.61 | 9.5 |
| 70 | 48 | 10.93 | 524.1 | 474.0 | 1,494 | 3030 | 4758 | 90.4 | 9.1 |
| 75 | 47.99 | 12,88 | 617.4 | 558.9 | 1,668 | 3200 | 5348 | 90.48 | 8.7 |
| 80 | 47.98 | 15.22 | 729.4 | 660.6 | 1.865 | 3383 | 5878 | 90.52 | 8.1 |
| 85 | 47.94 | 17.81 | 853.3 | 778.9 | 2.095 | 3551 | 6644 | 91.24 | 7.8 |
| 90 | 47.86 | 20.24 | 968.4 | 904.3 | 2.319 | 3723 | 7312 | 93.34 | 7.5 |
| 95 | 47.81 | 24.06 | 1149.8 | 1075.0 | 2.609 | 3935 | 8219 | 93.46 | 7.1 |
| 100 | 47.81 | 24.5 | 1170.5 | 1072.6 | 2.604 | 3933 | 8309 | 91.59 | 7.1 |

| MAD 81 | 116 EEE 100 | KV FLUXEF | PRO 29x8. | 7 MATT AN | MPX 40A (5-1 | 4S) | | 125 | MA) |
|---------------|----------------|----------------|-----------------------|---------------------|---------------------|--------------|----------------|-------------------|-------------------|
| rottle [%] | Voltage [V] | Current [A] | Input Power (W) | Output Power | Torque [N×m] | RPM | Thrust (gf) | Efficiency [%] | Efficier (gf/A |
| 30 | 48,13 | 1.47 | 70.5 | 54.3 | 0.373 | 1392 | 1183 | 77 | 16.7 |
| 35 | 48.12 | 2.13 | 102.0 | 82.9 | 0.492 | 1610 | 1570 | 81.23 | 15.3 |
| 40 | 48.12 | 2.84 | 136.1 | 114.5 | 0.608 | 1799 | 1924 | 84.05 | 14.1 |
| 45 | 48.11 | 3.8 | 182.2 | 156.5 | 0.752 | 1988 | 2322 | 85.88 | 12.7 |
| 50 | 48.1 | 5,11 | 245.2 | 216.1 | 0.937 | 2203 | 2894 | 88.07 | 11.8 |
| 55 | 48.08 | 6.69 | 321.2 | 285.6 | 1.124 | 2427 | 3461 | 88.86 | 10.8 |
| 60 | 48.09 | 8.4 | 403.1 | 361.6 | 1.317 | 2622 | 4130 | 89.69 | 10.2 |
| 65 70 | 48.01 | 10.2 | 489.2 581.9 | 440.4 527.1 | 1,498 | 2808 2982 | 4626 5238 | 89.98 90.53 | 9.5 |
| 75 | 47.98 | 14.38 | 689.5 | 616.1 | 1.868 | 3151 | 5761 | 90.53 89.31 | 9.0 |
| 80 | 47.98 | 17.13 | 821.1 | 735.8 | 2.119 | 3316 | 6511 | 89.56 | 7.9 |
| 85 | 47.87 | 19.81 | 947.7 | 841.7 | 2.300 | 3494 | 7084 | 88.77 | 7.5 |
| 90 | 47.86 | 22.89 | 1095.1 | 990.5 | 2.594 | 3647 | 8088 | 90.41 | 7.4 |
| 95 | 47.81 | 26.93 | 1287.1 | 1168.4 | 2.886 | 3866 | 8910 | 90.74 | 6.9 |
| 100 | 47.82 | 27.57 | 1317.9 | 1169.1 | 2.889 | 3865 | 8952 | 88.69 | 6.8 |
| | | | no 20 40 4 | | IBM 404 /5 4 | 45 | | 120 | MA |
| AD 811 | 6 EEE 100KV | FLUXER | PRO 30x10.0 | IMAII AM | IPX 40A (5-1- | 15) | | 125 | 99° |
| rottle [%] | Voltage [V] | Current [A] | Input Power [W] | Output Power [W] | Torque [N×m] | RPM | Thrust (gf) | Efficiency [%] | Efficier [gf/V |
| 30 | 48.14 | 1.74 | 83.4 | 66.2 | 0.465 | 1361 | 1381 | 79.4 | 16.5 |
| 35 | 48.13 | 2.56 | 122.8 | 102.5 | 0.619 | 1581 | 1824 | 83.43 | 14.8 |
| 40 | 48.12 | 3.44 | 165.0 | 140.9 | 0.762 | 1767 | 2156 | 85.33 | 13.0 |
| 45 | 48.1 | 4.61 | 221.4 | 191.4 | 0.937 | 1951 | 2640 | 86.42 | 11.9 |
| 50 | 48.1 | 6.06 | 290.7 | 257.6 | 1.143 | 2153 | 3241 | 88.56 | 11.1 |
| 55 | 48.08 | 7.91 | 380.0 | 337.3 | 1.365 | 2361 | 3990 | 88.74 | 10.5 |
| 60 | 48.02 | 10.06 | 482.8 | 427.7 | 1.602 | 2549 | 4734 | 88.53 | 9.8 |
| 65 | 48 | 12.29 | 589.4 | 523.5 | 1.835 | 2725 | 5347 | 88.77 | 9.1 |
| 70 75 | 47.98 47.98 | 14.75 17.29 | 707.2 828.9 | 627.0 732.3 | 2.075 | 2885 3047 | 5927 6660 | 88.62 88.29 | 8.4 |
| 80 | 47.88 | 20.06 | 960.0 | 862.4 | 2.575 | 3199 | 7444 | 89.79 | 7.8 |
| 85 | 47.84 | 23.07 | 1103.4 | 987.1 | 2.804 | 3361 | 8157 | 89.42 | 7.4 |
| 90 | 47.79 | 26.85 | 1282.6 | 1141.5 | 3.106 | 3510 | 8970 | 88.96 | 7.0 |
| 95 | 47.71 | 31.86 | 1519.8 | 1339.2 | 3.441 | 3717 | 9807 | 88.07 | 6.5 |
| 100 | 47.72 | 33.49 | 1597.8 | 1346.4 | 3.468 | 3708 | 9981 | 84.22 | 6.2 |
| MAD 81 | 116 EEE 100 | KV FLUXEF | R PRO 32x9. | 6 MATT AN | MPX 40A (5-1 | 4S) | | 125 | MA |
| 100 | 920 | 18 W | Input | 807 700 | | | 200 | 10000000 | 108 |
| rottle [%] | Voltage [V] | Current [A] | Power [W] | Output Power [W] | Torque [N×m] | RPM | Thrust (gf) | Efficiency [%] | Efficier [gf/V |
| 30 | 48.13 | 1.95 | 92.9 | 76.5 | 0.547 | 1337 | 1571 | 82.29 | 16.8 |
| 35 | 48.11 | 3.05 | 146.4 | 122.4 | 0.750 | 1559 | 2142 | 83.67 | 14.6 |
| 40 | 48.12 | 4.19 | 200.9 | 173.0 | 0.954 | 1732 | 2677 | 86.08 | 13.3 |
| 45 | 48.1 | 5.5 | 264.4 | 230.2 | 1,153 | 1908 | 3259 | 87.03 | 12.3 |
| 50 | 48.08 | 7.24 | 347.7 | 306.0 | 1.396 | 2093 | 3967 | 87.98 | 11.4 |
| 55 | 48.02 | 9.38 | 449.8 | 396.0 | 1.654 | 2286 | 4631 | 87.99 | 10.3 |
| 60 | 48 | 11.9 | 570.7 693.7 | 501.3 608.5 | 1,939 | 2469 | 5436 6128 | 87.78 87.69 | 9.5 |
| 70 | 47.96 | 17.21 | 824.8 | 719.1 | 2.206 | 2795 | 6959 | 87.15 | 8.4 |
| 75 | 47.89 | 20.92 | 1001.4 | 856.8 | 2.793 | 2930 | 7835 | 85.53 | 7.8 |
| 80 | 47.84 | 23.79 | 1137.8 | 985.0 | 3.053 | 3081 | 8521 | 86.55 | 7.5 |
| 85 | 47.78 | 27.25 | 1301.6 | 1122.8 | 3,323 | 3227 | 9370 | 86.24 | 7.2 |
| 90 | 47.73 | 32.38 | 1545.3 | 1295,1 | 3.673 | 3367 | 10174 | 83.76 | 6.6 |
| 95 | 47.61 | 37.45 | 1782.3 | 1514.5 | 4.089 | 3537 | 11389 | 84.95 | 6.4 |
| 100 | 47.61 | 38.28 | 1821.8 | 1534.5 | 4.142 | 3537 | 11502 | 84.2 | 6.3 |

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 extra 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.



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