

VEVOR®

Brushless DC motor BLDC:BY-MY 1020D



Configuration list

1. Motor
2. The controller
3. Charger
4. Hardware tools

Need help? Please contact us!

Have product questions? Need technical support?

E-mail: CustomerService@vevor.com

Please read all manual instructions carefully before operating. VEVOR reserves clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there is any technology or software updates on our product.

Safety recommendations

WARNING! Before operating the motor, make sure to read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire or serious injury.

CAUTION RECOMMENDATIONS

All machine operators should be trained and certified in electrical skills.

- Before unpacking the motor, check whether the package is intact and damaged, and whether there is moisture. After opening the cover, carefully remove dust from the motor.
- Installed in dry, less dust place;
- Installed in a well-ventilated place;
- Installed in a wide and smooth place, convenient for daily operation and maintenance.

SPECIFICATIONS

Motor Model:BY-MY 1020D

| | |
|---------------------------|---|
| Rated Voltage | 48V DC |
| Max Wattage | 1800W |
| Rated Speed | 4500RPM |
| Rated Torque | 4N.m |
| Rated Current | 33A |
| No-load Speed | 5600RPM |
| No-load Current | ≤4A |
| Motor Efficiency | ≥85% |
| Sprocket Number | 78-9T |
| Recommended gear Multiple | ≥6 Times |
| Recommended Load Weight | ≤150KG |
| Size | 134mm X 107mm X 110mm |
| Weight | 4.25KG |
| Range of application | Small electric car, Electric bicycle, Electric go-kart, Electric scooter..... |

Controller Model:BY15WF01-A

| | |
|--------------------------|---------------------|
| Rated Voltage | 48V DC |
| Max Wattage | 1800W |
| Rated Current | 33A |
| Brake | BRAKE LOW LEVEL |
| Under Voltage Protection | 39V |
| Working Temperature | -40°C~110°C |
| Size | 180mm X 85mm X 45mm |
| Weight | 0.6KG |

INSTALLATION

SPECIFICATIONS

Function description of controller outgoing line

Car wiring function description

Left and right corresponding connection

The first step:

- (MOTOR PHASE) U (RED), Motor phase line
 V (BLUE), Motor phase line
 W (GREEN), Motor phase line
 (MOTOR SIGNAL) 1. (RED), +5V
 2. (BLACK), GND
 3. (BLUE), -
 4. U (RED), Hall signal
 5. V (GREEN), Hall signal
 6. W (BLUE), Hall signal

- Brake signal Low level.
 1. Purple, Low level, brake signal line
 2. black, GND
 3. Purple, Low level, brake signal line

- Charger port
 1. red, P+
 2. black, -
 3. brown, signal

- Throttle
 1. red, +4.3
 2. black, GND
 3. brown, signal

- Indicator Light
 1. Orange
 2. Black, GND
 3. brown, signal

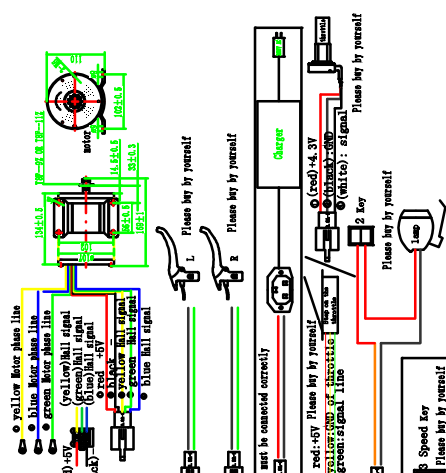
- 3 Speed
 1. blue, KI
 2. black, GND
 3. yellow, K2

- Reverse
 1. brown, signal
 2. black, GND
 3. Speed for
 4. Speed by yourself

- Brake Lamp
 1. Orange
 2. Purple
 3. Reverse key
 4. Brake light
 5. Brake by yourself

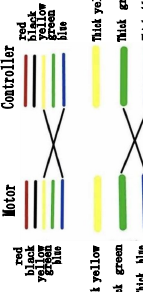
- The second step:
 1. 48V (red) red-mode of battery
 2. 48V (black) black-cathode of battery
 The positive and negative terminals must be connected correctly

- The last step:
 1. red, P+
 2. orange, VCC
 The electric door lock must be opened, or the red wire and the orange wire must be connected by a short circuit



CMW connection mode

- Motor phase lines are three thick lines.
- Motor coarse yellow and controller coarse yellow connection.
- Motor rough green is connected with controller rough blue.
- Motor rough blue is connected with controller rough green.
- Hall line of motor is fine one wire.
- Motor fine red and controller fine red connection.
- Motor fine black and controller fine black connection.
- Motor fine blue and controller fine yellow connection.
- Motor fine green and controller fine green connection.
- Motor fine yellow and controller fine blue connection.



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