

# 无刷开门电机 BRUSHLESS DOOR MOTORS

## 60W



本产品采用DC永磁有刷马达做运转主体，可与微电脑控制系统方面对接，与电脑控制系配合实现自我检察，制定最佳运作模式产品具有：噪音底、体积小、重量轻、寿命长、适用范围广等优点；同时可满足客户对自动门升级的需要。

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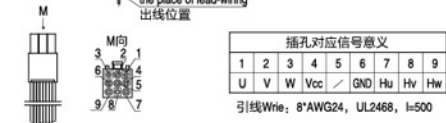
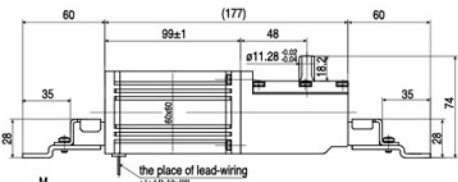
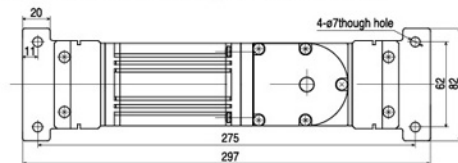
## 电机性能参数 MOTOR PERFORMANCE PARAMETERS

| 型号<br>Model | 电压<br>Voltage<br>V | 输出功率<br>Out put Power<br>W | 空载参数No-load Parameters |                | 负载参数Load Parameters |                  |                | 整机允许力矩<br>Allowable Torque Gear Motor |              | 电机重量<br>Motr Weight<br>Kg |
|-------------|--------------------|----------------------------|------------------------|----------------|---------------------|------------------|----------------|---------------------------------------|--------------|---------------------------|
|             |                    |                            | 转速Speed<br>r/min       | 电流Current<br>A | 转速Speed<br>r/min    | 力矩Torque<br>mN.m | 电流Current<br>A | GK8.5<br>mN.m                         | GK13<br>mN.m |                           |
| ZDMJ-3      | 24                 | 60                         | 3000                   | 0.6 Max        | 2500                | 229              | 4.0            | 1320                                  | 2000         | 1.2                       |

## 外形图 (单位 mm) Dimensions(Unit mm)

### ● 导线型 Lead wiring Type

重量 Weight: 电动机 Motor 1.2kg 减速器 Gearhead 0.8kg



| 电动机型号<br>Motor Model | 减速器型号<br>Gearhead Model | 减速比<br>Gear Ratio |
|----------------------|-------------------------|-------------------|
| ZDMJ-3               | GK□                     | 8.5<br>13         |

- 减速器型号的□中为减速比的数值
- Enter the gear ratio in the box (□) within the model name

| 齿轮箱出轴渐开线花键参数<br>Parameters of involute output shaft |      |                 |
|---|------|-----------------|
| 模数 Module   | m    | 0.6             |
| 齿数 Teeth  | z    | 18              |
| 压力角 Module  | α    | 45°             |
| 公差等级和配合类别<br>Tolerance class and matching sirt      | 6h   | 6hGB/T3478.1-95 |
| 大径 Big dia  | Dee  | ø11.28          |
| 小径 Small dia  | Die  | ø10.08          |
| 跨齿数<br>Gear No of spanning measurement              | K    | 4               |
| 公法线平均长度<br>Average length<br>Common line            | Wmin | 6.34            |

### ● 产品特点 Product Characters

● 基本技术参数: DC24V, 60W, 2500RPM S1,B CLASS, IP20 ● 额定力矩: 229mN.m ● 光机空载噪音: <50dB, L=50cm ● 耐电压: AC660V, 1S, 泄露电流 <5mA ● 绝缘电阻: >50MΩ 500V ● 工作寿命: 4000H ● 环保要求: 符ROHS指令

● Basic specification: DC24V, 60W, 2500RPM S1,B CLASS, IP20 ● Rated torque of bare motor: 229mN.m ● No-load noise of whole motor: <50dB, L=50cm ● VE: AC660V, 1S, 5mA ● Insulation resistance: >50MΩ 500V ● Life: 4000H ● Ambient request: ROHS

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|-------------|--------------------|----------------------------|------------------------|----------------|---------------------|------------------|----------------|---------------------------------------|---------------------------|
|             |                    |                            | 转速Speed<br>r/min       | 电流Current<br>A | 转速Speed<br>r/min    | 力矩Torque<br>mN.m | 电流Current<br>A |                                       |                           |
| ZDMJ-4      | 24                 | 60                         | 3000                   | 0.6 Max        | 2500                | 229              | 4.0            | GK12.5<br>1950                        | 1.2                       |

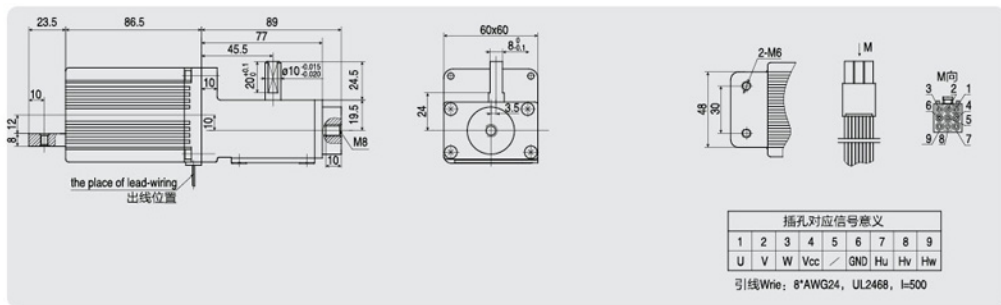
## 外形图 (单位 mm) Dimensions(Unit mm)

| 电动机型号<br>Motor Model | 减速器型号<br>Gearhead Model | 减速比<br>Gear Ratio |
|----------------------|-------------------------|-------------------|
| ZDMJ-4               | GK□                     | 12.5              |

### ● 导线型 Lead wiring Type

重量 Weight: 电动机 Motor 1.2kg 减速器 Gearhead 0.8kg

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|-------------|--------------------|----------------------------|------------------------|----------------|---------------------|------------------|----------------|---------------------------------------|--------------|---------------------------|
|             |                    |                            | 转速Speed<br>r/min       | 电流Current<br>A | 转速Speed<br>r/min    | 力矩Torque<br>mN.m | 电流Current<br>A | GK10<br>mN.m                          | GK15<br>mN.m |                           |
| ZDMJ-6A□    | 24                 | 60                         | 3300                   | 0.6 Max.       | 3000                | 191              | 3.5            | 1146                                  | 1719         | 1.8                       |
| ZDMJ-6B□    | 24                 | 60                         | 3400                   | 0.7 Max.       | 3000                | 223              | 4.2            | 1337                                  | 2006         | 1.8                       |

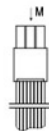
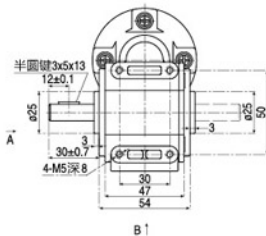
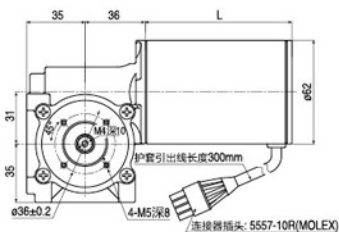
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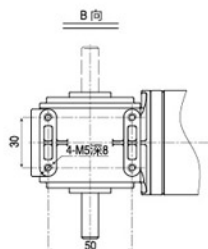
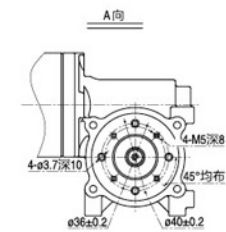
| 电动机型号<br>Motor Model | 电动机长度<br>(L) | 减速器型号<br>Gearhead Model | 减速比<br>Gear Ratio |
|----------------------|--------------|-------------------------|-------------------|
| ZDMJ-6A              | 89           | GK□                     | 10                |
| ZDMJ-6B              |              |                         | 15                |

- 减速器型号的□中为减速比的数值
- Enter the gear ratio in the box (□) within the model name

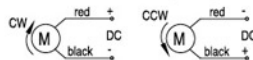


| 插孔对应信号意义 |   |   |     |     |    |    |    |    |
|----------|---|---|-----|-----|----|----|----|----|
| 1        | 2 | 3 | 4   | 5   | 6  | 7  | 8  | 9  |
| U        | V | W | Vcc | GND | Hu | Hv | Hw | Hw |

引线Wrie: 8\*AWG24, UL2468, I=500



#### ● 电机接线图 Wiring Diagram of Motor



● 标准引出线长度: 300mm±10, 型号: UL1015 规格: AWG20; 电机引出线长度, 型号在配件尺寸等条件允许的情况下可根据客户需求定制

● Standard length of lead wire: 300mm±10, model: UL1015 type: AWG20; lead wire length, model will be customised by client request under allowed circumstance of adoptable dimension