

# WL-33RS520 DC SPUR GEAR MOTOR

基本电压/Main voltage : 6VDC、12VDC、24VDC

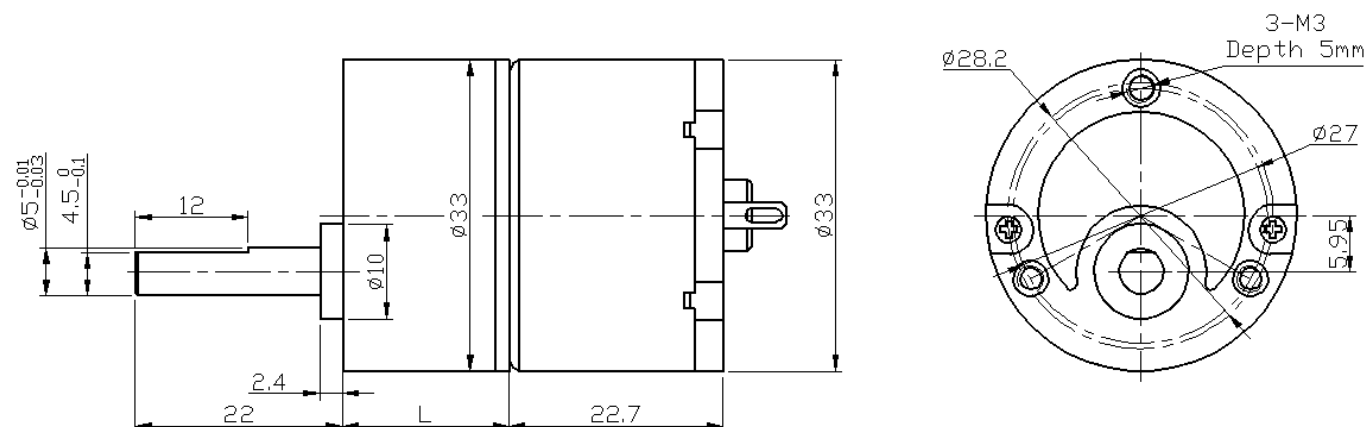
典型应用/Typical applications :

仪器仪表、电动工具、咖啡机、自动售卖机、按摩器、游戏机、  
推窗器、自动化设备

Instrument, Electric tools, Coffee machine,

Vending machine, Massager, Game machine,

Electric window opener, Automation equipment



## Gearbox Data :

| Number of stages        | 3    | 4    | 5    | 6     | 7     |
|-------------------------|------|------|------|-------|-------|
| Reduction ratio         | 20   | 50   | 125  | 312.5 | 781   |
| Gearbox length "L"mm    | 17.7 | 19.9 | 22.2 | 24.4  | 26.75 |
| Breaking torque(kgf.cm) | 10   | 15   | 20   | 24    | 24    |
| Gearbox efficiency      | 73%  | 65%  | 59%  | 53%   | 48%   |

## Driving Motor Data :

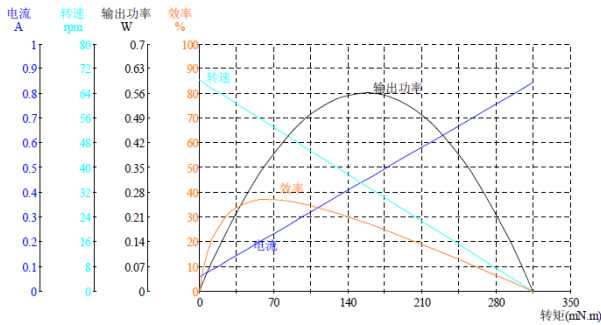
| Motor model     | Rated Volt. | No load   |       | Load       |       |        |              | Stall      |             |
|-----------------|-------------|-----------|-------|------------|-------|--------|--------------|------------|-------------|
|                 |             | Current   | Speed | Current    | Speed | Torque | Output power | Torque     | Current     |
|                 | V           | mA        | r/min | mA         | r/min | gf.cm  | W            | gf.cm      | mA          |
| WL-520-012-3000 | 12          | $\leq 20$ | 3000  | $\leq 110$ | 2200  | 25     | 0.6          | $\geq 100$ | $\geq 400$  |
| WL-520-012-4500 | 12          | $\leq 30$ | 4500  | $\leq 150$ | 3300  | 35     | 1.2          | $\geq 140$ | $\geq 850$  |
| WL-520-012-6000 | 12          | $\leq 40$ | 6000  | $\leq 400$ | 4500  | 45     | 2.1          | $\geq 180$ | $\geq 1400$ |
| WL-520-024-3000 | 24          | $\leq 15$ | 3000  | $\leq 60$  | 2200  | 25     | 0.6          | $\geq 100$ | $\geq 200$  |
| WL-520-024-4500 | 24          | $\leq 20$ | 4500  | $\leq 80$  | 3300  | 35     | 1.2          | $\geq 140$ | $\geq 420$  |
| WL-520-024-6000 | 24          | $\leq 30$ | 6000  | $\leq 200$ | 4500  | 45     | 2.1          | $\geq 180$ | $\geq 700$  |

Geared Motor Samples Data :

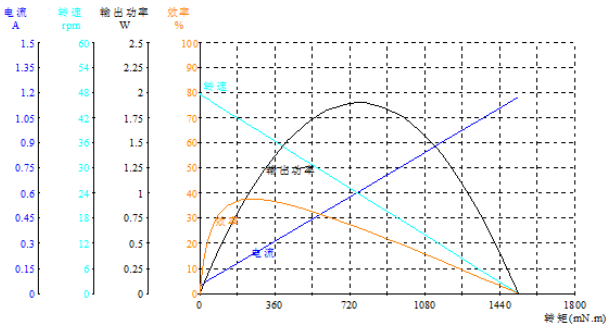
| 电机型号<br>Motor model      | 额定电压<br>Rated Volt. | 空载/No load    |             | 负载/Load       |             |              |                      | 堵转/Stall     |               |
|--------------------------|---------------------|---------------|-------------|---------------|-------------|--------------|----------------------|--------------|---------------|
|                          |                     | 电流<br>Current | 转速<br>Speed | 电流<br>Current | 转速<br>Speed | 扭矩<br>Torque | 输出功率<br>Output power | 扭矩<br>Torque | 电流<br>Current |
|                          | V                   | A             | r/min       | A             | r/min       | kgf.cm       | W                    | kgf.cm       | A             |
| WL-33RS5203.77000-312.5K | 3.7                 | 0.15          | 21.4        | 0.74          | 17.3        | 3.8          | 0.67                 | 19.7         | 3.20          |
| WL-33RS5204.53500-50K    | 4.5                 | 0.06          | 68.2        | 0.23          | 53.1        | 0.7          | 0.39                 | 3.0          | 0.84          |
| WL-33RS5200126000-125K   | 12.0                | 0.05          | 47.7        | 0.25          | 39.0        | 2.8          | 1.13                 | 15.0         | 1.17          |

Curve Chart :

Model: WL-33RS5204.53500-50K



Model: WL-33RS5200126000-125K



## **Remark:**

**Gear Motor Torque=Driving motor torque\*Reduction ratio\*Gearbox efficiency;**

**Gear Motor Speed=Driving motor speed/Reduction ratio**

**Motor detailed config can be customized according to customer's requests, like voltage,speed,as well as shaft length and shape...**

**Welcome OEM or OWL projects**