

# WL-27RS310 DC SPUR GEAR MOTOR

基本电压/Main voltage : 6VDC、12VDC、24VDC

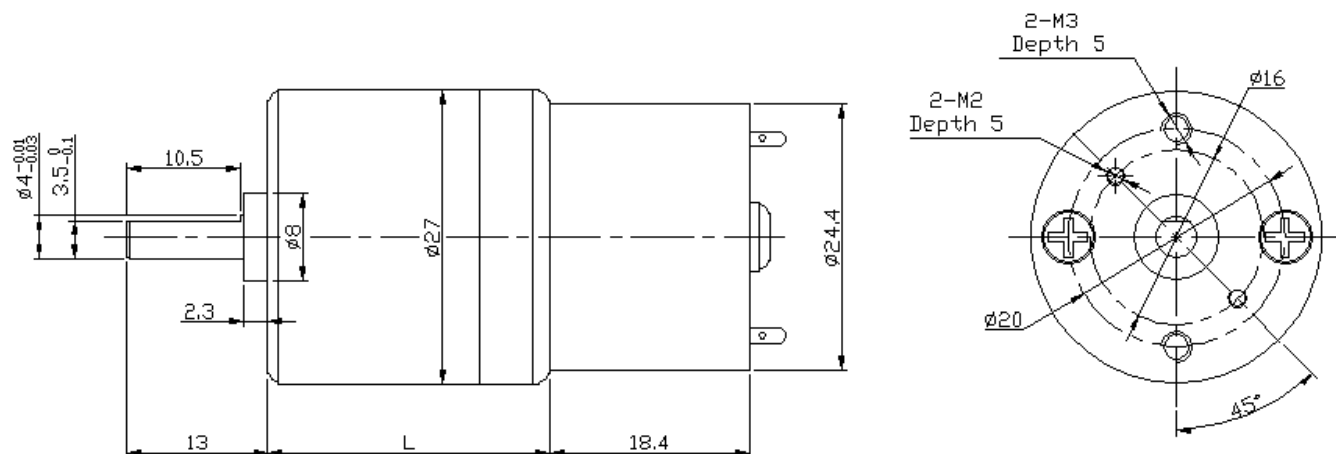
典型应用/Typical applications :

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        | 4     | 5        | 6           | 7           | 8             |
|-------------------------|-------|----------|-------------|-------------|---------------|
| Reduction ratio         | 19、27 | 36、52、76 | 100、145、210 | 277、402、583 | 771、1119、1621 |
| Gearbox length "L"mm    | 18    | 20       | 22          | 24          | 26            |
| Breaking torque(kgf.cm) | 10    | 12       | 14          | 16          | 16            |
| Gearbox efficiency      | 65%   | 59%      | 53%         | 48%         | 43%           |

## Driving Motor Data :

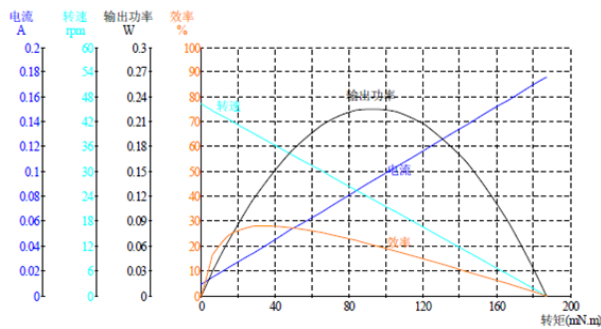
| Motor model     | Rated Volt. | No load   |       | Load       |       |        |              | Stall     |            |
|-----------------|-------------|-----------|-------|------------|-------|--------|--------------|-----------|------------|
|                 |             | Current   | Speed | Current    | Speed | Torque | Output power | Torque    | Current    |
|                 | V           | mA        | r/min | mA         | r/min | gf.cm  | W            | gf.cm     | mA         |
| WL-310-006-3000 | 6           | $\leq 20$ | 3000  | $\leq 60$  | 2300  | 5      | 0.1          | $\geq 20$ | $\geq 135$ |
| WL-310-006-4500 | 6           | $\leq 40$ | 4500  | $\leq 120$ | 3200  | 7      | 0.2          | $\geq 28$ | $\geq 240$ |
| WL-310-006-6000 | 6           | $\leq 35$ | 6000  | $\leq 140$ | 4500  | 10     | 0.5          | $\geq 40$ | $\geq 600$ |
| WL-310-012-3000 | 12          | $\leq 15$ | 3000  | $\leq 40$  | 2300  | 5      | 0.1          | $\geq 20$ | $\geq 70$  |
| WL-310-012-4500 | 12          | $\leq 20$ | 4500  | $\leq 55$  | 3200  | 7      | 0.2          | $\geq 28$ | $\geq 120$ |
| WL-310-012-6000 | 12          | $\leq 25$ | 6000  | $\leq 100$ | 4500  | 10     | 0.5          | $\geq 40$ | $\geq 290$ |

Geared Motor Samples Data :

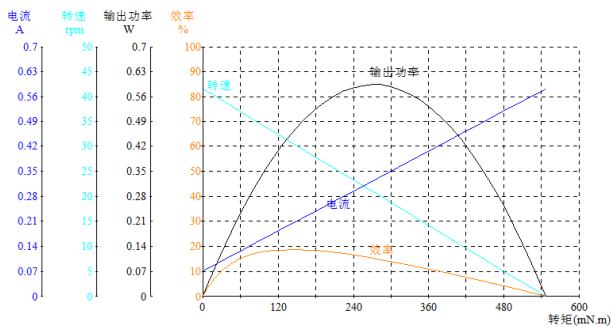
| 电机型号<br>Motor model    | 额定电压        | 空载/No load |       | 负载/Load |       |        |      | 堵转/Stall |      |
|------------------------|-------------|------------|-------|---------|-------|--------|------|----------|------|
|                        | Rated Volt. | 电流         | 转速    | 电流      | 转速    | 扭矩     | 输出功率 | 扭矩       | 电流   |
|                        | V           | A          | r/min | A       | r/min | kgf.cm | W    | kgf.cm   | A    |
| WL-27RS3100125000-100K | 12.0        | 0.03       | 46.2  | 0.04    | 37.4  | 0.36   | 0.14 | 1.9      | 0.18 |
| WL-27RS3100126200-12K  | 12.0        | 0.04       | 572.1 | 0.11    | 418.3 | 0.10   | 0.42 | 0.4      | 0.29 |
| WL-27RS3100126200-23K  | 12.0        | 0.04       | 238.6 | 0.10    | 169.5 | 0.19   | 0.34 | 0.7      | 0.27 |
| WL-27RS3100128000-52K  | 12.0        | 0.04       | 142.0 | 0.13    | 108.5 | 0.36   | 0.40 | 1.5      | 0.43 |
| WL-27RS3100129200-210K | 12.0        | 0.07       | 41.6  | 0.21    | 30.1  | 1.54   | 0.48 | 5.6      | 0.58 |
| WL-27RS3100247300-210K | 24.0        | 0.02       | 36.1  | 0.06    | 26.9  | 1.39   | 0.39 | 5.5      | 0.18 |

Curve Chart :

Model: WL-27RS3100125000-100K



Model: WL-27RS3100129200-210K



## **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**