



## DS-33RS385 DC SPUR GEAR MOTOR Series

Main voltage: 6VDC, 12VDC, 24VDC

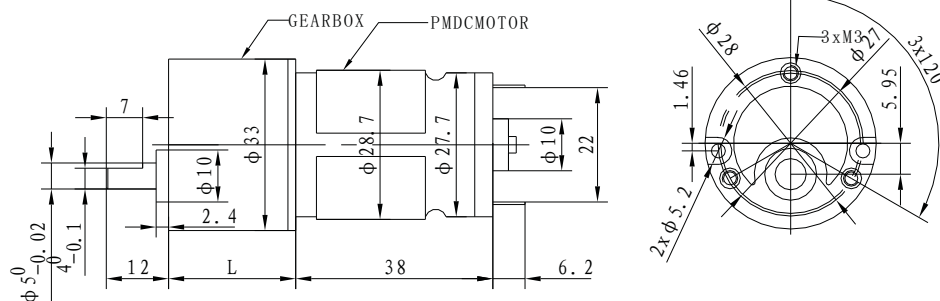
Typical applications:

Garbage disposers, Slot machine, Peristaltic pump, Angular telescope, Automatic door, Electric advertising, Medical equipment, ATM bank automatic system, Household appliances, Automatic actuator, Office equipment.

Weight: 140~180g/pcs (approx)

Packing details: CTN size: 28X26XH22.5cm 60pcs/CTN

### APPEARANCE SIZE



### Gearbox Data:

| Number of stages  | 3 stages reduction | 4 stages reduction | 5 stages reduction | 6 stages reduction | 7 stages reduction             |
|---|--------------------|--------------------|--------------------|--------------------|--------------------------------|
| Reduction ratio   | 20                 | 36.25, 50          | 90.6, 120.8        | 226.56, 312.5      | 511.6, 547.5, 586, 730, 781.25 |
| Gearbox length "L" mm   | 17.75              | 20                 | 22.25              | 24.5               | 26.75                          |
| Max. Running torque   | 2Kgf • cm          | 2Kgf • cm          | 5Kgf • cm          | 8Kgf • cm          | 8Kgf • cm                      |
| Max. Gear breaking torque   | 6Kgf • cm          | 6Kgf • cm          | 15Kgf • cm         | 24Kgf • cm         | 24Kgf • cm                     |
| Max. Gearing efficiency   | 73%                | 65%                | 59%                | 53%                | 47%                            |
| Other reduction ratio please telephone or e-mail to our engineering department. |                    |                    |                    |                    |                                |

### Motor Data:

| Motor name   | Rated Volt. V | No load |       | Load torque |       |         |              | Stall torque |         |
|--------------|---------------|---------|-------|-------------|-------|---------|--------------|--------------|---------|
|              |               | Current | Speed | Current     | Speed | Torque  | Output power | Torque       | Current |
|              |               | mA      | r/min | mA          | r/min | gf • cm | W            | gf • cm      | A       |
| RS-385123000 | 12            | ≤45     | 3000  | ≤150        | 2200  | 35      | 0.8          | 140          | 0.45    |
| RS-385124500 | 12            | ≤70     | 4500  | ≤300        | 3300  | 55      | 1.8          | 220          | 1.2     |
| RS-385126000 | 12            | ≤100    | 6000  | ≤600        | 4500  | 80      | 3.6          | 320          | 1.9     |
| RS-385243000 | 24            | ≤25     | 3000  | ≤70         | 2200  | 35      | 0.8          | 140          | 0.23    |
| RS-385244500 | 24            | ≤40     | 4500  | ≤150        | 3300  | 55      | 1.8          | 220          | 0.6     |
| RS-385246000 | 24            | ≤50     | 6000  | ≤300        | 4500  | 80      | 3.6          | 320          | 1       |

Remarks: After connecting motor and gearbox (named gear motor), the output torque of gear motor = driving motor torque \* gear reduction ration \* gearing efficiency; Output speed of gear motor = Driving motor speed / gear reduction ration.

### NOTE:

1. Gear motor named methods: e.g. DS-33RS385123000-50K, as for Driving Motor, please refer to the motor data of RS-385123000; Gearbox, please refer to gearbox data of reduction ration 50. Related to the gear motor output speed & torque, please refer to the remarks in driving motor data;
2. Motor can be installed with magnetic encoder, for more details, pls refer to our company website;
3. Standard output shaft after reducing: φ6.0mm, other sizes of the output shaft can be made as client's request;
4. The gear materials can be plastic, powder metallurgy, or 45# steel after heat-treatment;