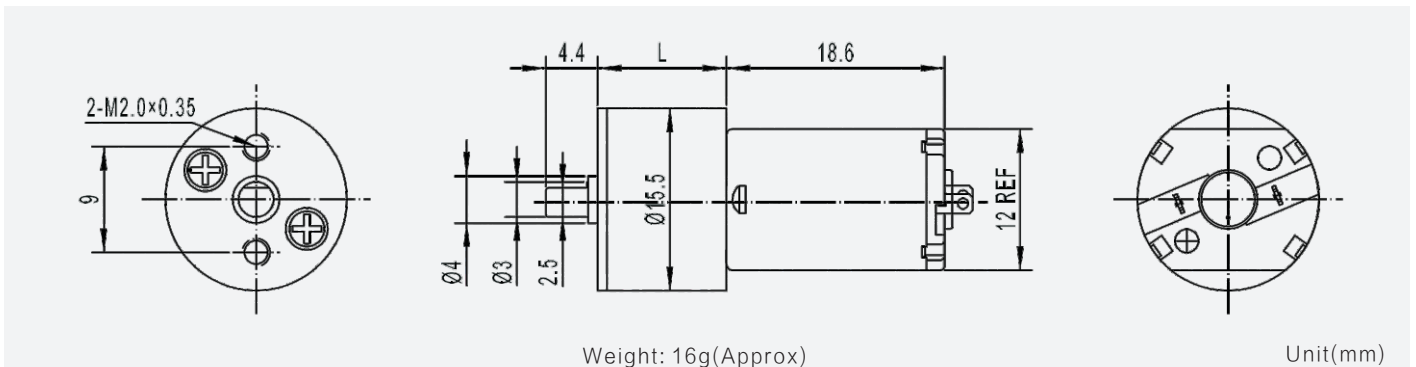


# GM16-030PA

16mm gearbox plus 030 permanent magnet DC motor

|                                        |               |                             |                            |
|----------------------------------------|---------------|-----------------------------|----------------------------|
| Module                                 | 0.15          |                             |                            |
| Rated torque (kg.cm)                   | 0.5 kg.cm max |                             |                            |
| Max momentary tolerance torque (kg.cm) | 1.0 kg.cm max |                             |                            |
| Reduction ratio                        | 1/10          | 1/17、1/20、1/35<br>1/63、1/86 | 1/115、1/150<br>1/250、1/360 |
| Number of gear stages                  | 2             | 4                           | 5                          |
| Gearbox length L (mm)                  | 11.0          |                             |                            |



## Gear Motor Technical Data

| Reduction ratio |                     | 10   | 20   | 35   | 63   | 86   | 115  | 150  | 250 | 360 |
|-----------------|---------------------|------|------|------|------|------|------|------|-----|-----|
| 6.0V            | No-load speed(rpm)  | 1100 | 550  | 310  | 175  | 130  | 96   | 73   | 44  | 30  |
|                 | Rated speed(rpm)    | 900  | 450  | 260  | 140  | 105  | 78   | 60   | 38  | 28  |
|                 | Rated torque(kg.cm) | 0.03 | 0.06 | 0.1  | 0.19 | 0.26 | 0.35 | 0.45 | 0.5 | 0.5 |
| 12.0V           | No-load speed(rpm)  | 1200 | 610  | 350  | 195  | 140  | 105  | 83   | 50  | 35  |
|                 | Rated speed(rpm)    | 975  | 485  | 280  | 155  | 110  | 85   | 65   | 41  | 30  |
|                 | Rated torque(kg.cm) | 0.03 | 0.06 | 0.48 | 0.19 | 0.26 | 1.6  | 0.45 | 0.5 | 0.5 |

## Motor Technical Data

| Motor model     | Rated voltage | No-load |         | Rated |        |         |       | Stall  |         |
|-----------------|---------------|---------|---------|-------|--------|---------|-------|--------|---------|
|                 |               | Speed   | Current | Speed | Torque | Current | Power | Torque | Current |
|                 | VDC           | r/min   | mA      | r/min | g.cm   | mA      | W     | g.cm   | A       |
| TFF-030PA-09220 | 6.0           | 11500   | 35      | 9000  | 5.0    | 140     | 0.45  | 23     | 0.60    |
| TFF-030PA-06400 | 12.0          | 12500   | 20      | 9750  | 5.0    | 75      | 0.50  | 23     | 0.27    |

