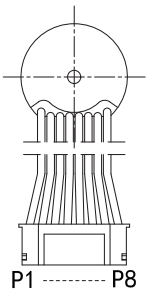
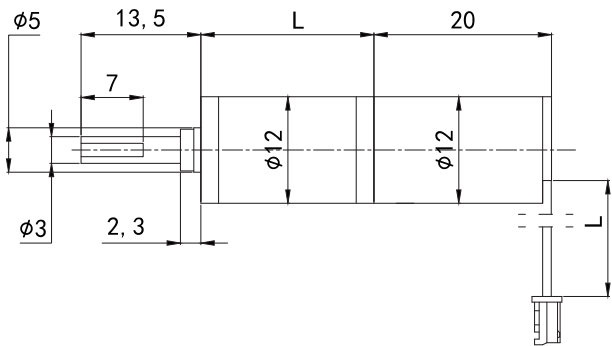
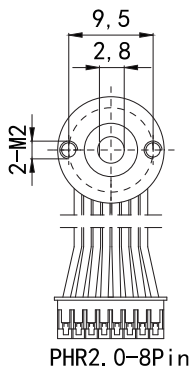


GM P12-TBC1220

12mm planetary gearbox plus 1220 brushless motor

|                                        |              |      |      |       |        |        |
|----------------------------------------|--------------|------|------|-------|--------|--------|
| Module                                 | 0.25         |      |      |       |        |        |
| Rated torque (kg.cm)                   | 2.0kg.cm max |      |      |       |        |        |
| Max momentary tolerance torque (kg.cm) | 4.0kg.cm max |      |      |       |        |        |
| Reduction ratio                        | 1/4          | 1/16 | 1/64 | 1/256 | 1/1024 | 1/4096 |
| Number of gear stages                  | 1            | 2    | 3    | 4     | 5      | 6      |
| Gearbox length L (mm)                  | 16           | 19   | 22   | 25    | 28     | 31     |



Weight: 50 (Approx)

Unit(mm)

Gear Motor Technical Data

| Reduction ratio |                     | 4    | 16   | 64   | 256  | 1024 | 4096 |  |  |  |  |
|-----------------|---------------------|------|------|------|------|------|------|--|--|--|--|
| 6V              | No-load speed(rpm)  | 4500 | 1125 | 281  | 70   | 18   | 4    |  |  |  |  |
|                 | Rated speed(rpm)    | 3825 | 956  | 239  | 60   | 15   | 4    |  |  |  |  |
|                 | Rated torque(kg.cm) | 0.03 | 0.12 | 0.45 | 1.68 | 2.00 | 2.00 |  |  |  |  |
| 12V             | No-load speed(rpm)  | 6519 | 1630 | 407  | 102  | 25   | 6    |  |  |  |  |
|                 | Rated speed(rpm)    | 5541 | 1385 | 346  | 87   | 22   | 5    |  |  |  |  |
|                 | Rated torque(kg.cm) | 0.04 | 0.15 | 0.56 | 1.98 | 2.00 | 2.00 |  |  |  |  |

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   | A       | W     | g.cm   | A       |
| TBC1220-06180 | 6             | 18000   | 102     | 15300 | 8.8    | 0.4     | 1.4   | 58.5   | 2       |
| TBC1220-12260 | 12            | 26075   | 84      | 22164 | 10.3   | 0.3     | 2.4   | 68.8   | 1.7     |

