

PGMZ62/86DM80

Helical planetary gear box
Permissible Load Range: 0.45N.m~50N.m



BRUSHLESS MOTOR SPECIFICATION

| TYPE | Number of poles | Number of phase | Rated voltage | No-load speed | Rated speed | Rated torque | Rated power | Peak torque | Peak current |
|-------------|-----------------|-----------------|---------------|---------------|-------------|--------------|-------------|-------------|--------------|
| | | | VDC | r/min | r/min | N.m | W | mN.m | A |
| 86DM80-4830 | 8 | 3 | 48 | 3600 | 3000 | 1 | 300 | 3.0 | 8.6 |

BRUSHLESS GEAR MOTOR SPECIFICATION

| Reduction ratio | | 3.65 | 5.36 | 6.55 | 8.63 | 14 | 19 | 25 | 28 | 34 | 45 |
|-----------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Number of gear trains | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Length(L) | mm | 45.1 | 45.1 | 45.1 | 45.1 | 62.70 | 62.70 | 62.70 | 62.70 | 62.70 | 62.70 |
| No-load speed | r/min | 986 | 671 | 550 | 417 | 257 | 189 | 144 | 129 | 106 | 80 |
| Rated speed | r/min | 822 | 560 | 458 | 348 | 214 | 158 | 120 | 107 | 88 | 67 |
| Rated torque | N.m | 3.2 | 4.8 | 5.8 | 6.9 | 11.2 | 15.2 | 20 | 22.4 | 25 | 25 |
| Peak torque | N.m | 15 | 15 | 15 | 15 | 50 | 50 | 50 | 50 | 50 | 50 |

| Reduction ratio | | 58 | 67 | 81 | 91 | 103 | 119 | 128 | 146 | 165 | 192 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of gear trains | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Length(L) | mm | 62.70 | 80.30 | 80.30 | 80.30 | 80.30 | 80.30 | 80.30 | 80.30 | 80.30 | 80.30 |
| No-load speed | r/min | 62 | 54 | 44 | 40 | 35 | 30 | 28 | 25 | 22 | 19 |
| Rated speed | r/min | 52 | 45 | 37 | 33 | 29 | 25 | 23 | 21 | 18 | 16 |
| Rated torque | N.m | 25 | 45 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Peak torque | N.m | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

DIMENSIONS

