# 永磁直流行星齿轮电机 (内齿圈材质: 粉末金属)

## PM DC Planetary Gear Motor (Ring Gear Material: Powder Metal)

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**22JNA20K/24ZY50**

Φ22行星减速器，允许转矩范围:0.2N.m~2.0N.m
22mm OD Planetary Gearbox,
Permissible Load Range: 0.2N.m~2.0N.m

减速器出轴直径及轴伸可定制 The output shaft diameter and the shaft extension of the gearbox can be customized.

## ■ 外形和安装尺寸 Dimensions

## ■ 电动机主要技术参数 Motor Technical Data

| 电机型号 Type | 额定电压 Rated Voltage VDC | 空载转速 No-load Speed r/min | 空载电流 No-load Current mA | 额定转速 Rated Speed r/min | 额定转矩 Rated Torque mN.m | 输出功率 Output Power W | 额定电流 Rated Current mA | 堵转力矩 Stall Torque mN.m | 堵转电流 Stall current A |
|---|---|---|---|---|---|---|---|---|---|
| 24ZY50-1260 | 12 | 6000 | 162 | 5018 | 8.33 | 4.38 | 575 | 48 | 2.8 |
| 24ZY50-1280 | 12 | 8000 | 215 | 6700 | 9.86 | 6.92 | 690 | 59 | 3.4 |

## ■ 齿轮减速电机主要技术参数 Gear Motor Technical Data

配置24ZY50-1260直流电机(24ZY50-1260 DC Motor)

| 减速比 Reduction ratio | 4 | 4.75 | 6 | 16 | 19 | 22 | 24 | 28 | 36 | 64 | 76 | 90 | 96 | 107 | 114 | 144 | 171 | 216 | 256 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 减速级数 Number of gear trains | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 减速器长度(L) Length mm | 20 | 20 | 20 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 39.5 |
| 空载速度 No-load speed r/min | 1500 | 1263 | 1000 | 375 | 316 | 273 | 250 | 214 | 167 | 94 | 79 | 67 | 62 | 56 | 52 | 42 | 35 | 28 | 23 |
| 额定转速 Rated speed r/min | 1254 | 1056 | 836 | 314 | 264 | 228 | 209 | 179 | 139 | 78 | 66 | 56 | 52 | 47 | 44 | 35 | 29 | 23 | 20 |
| 额定转矩 Rated torque N.m | 0.03 | 0.036 | 0.045 | 0.108 | 0.128 | 0.148 | 0.161 | 0.188 | 0.242 | 0.388 | 0.46 | 0.545 | 0.582 | 0.648 | 0.69 | 0.87 | 1.04 | 1.31 | 1.4 |
| 最大瞬间允许负载 N.m Max. permissible load in a short time | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |

配置24ZY50-1280直流电机(24ZY50-1280 DC Motor)

| 减速比 Reduction ratio | 4 | 4.75 | 6 | 16 | 19 | 22 | 24 | 28 | 36 | 64 | 76 | 90 | 96 | 107 | 114 | 144 | 171 | 216 | 256 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 减速级数 Number of gear trains | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 减速器长度(L) Length mm | 20 | 20 | 20 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 39.5 |
| 空载速度 No-load speed r/min | 2000 | 1684 | 1333 | 500 | 421 | 364 | 333 | 286 | 222 | 125 | 105 | 89 | 83 | 75 | 70 | 56 | 47 | 37 | 31 |
| 额定转速 Rated speed r/min | 1675 | 1410 | 1117 | 419 | 353 | 305 | 279 | 239 | 186 | 105 | 88 | 74 | 70 | 62 | 59 | 46 | 39 | 31 | 26 |
| 额定转矩 Rated torque N.m | 0.035 | 0.042 | 0.053 | 0.128 | 0.152 | 0.176 | 0.192 | 0.224 | 0.288 | 0.46 | 0.55 | 0.65 | 0.69 | 0.77 | 0.82 | 1.04 | 1.23 | 1.55 | 1.67 |
| 最大瞬间允许负载 N.m Max. permissible load in a short time | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |

## ■ 电动机特性图 Motor Characteristic Figure

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DONGZHENG INTELLIGENT MANUFACTURE DRIVE THE FUTURE