



| Motor parameters | |
|----------------------------------|-------|
| No. of poles | 10 |
| DC Link Voltage(V) | 48 |
| Rated Power(W) | 1000 |
| Rated Torque(N·m) | 4.78 |
| Rated Speed(rpm) | 2000 |
| Rated Current(A) | 22 |
| Maximum torque(N·m) | 14.3 |
| Maximum Current(A) | 71 |
| Standstill torque(N·m) | 5.25 |
| Standstill current(A) | 24.12 |
| Resistance line-line(Ω) | 0.059 |
| Close circuit inductance(mH) | 0.32 |
| Voltage constant(V/krpm) | 13.5 |
| Torque constant(Nm/A) | 0.22 |

| | | | | | | | | | |
|--|------------------------------------|---|-------|-----------|-------------|---|--|----------|----------------------|
| Harmonic gear-ratio | | 32-50 | 32-80 | 32-100 | 32-120 | 32-160 | | | |
| Peak torque for start and stop (Nm) | | 281 | 395 | 433 | 459 | 484 | | | |
| Permissible max.value of ave.load torque(Nm) | | 140 | 217 | 281 | 281 | 281 | | | |
| Rated torque(Nm) | | 99 | 153 | 178 | 178 | 178 | | | |
| Permissible max. momentary torque(Nm) | | 497 | 738 | 841 | 892 | 892 | | | |
| Max. output rotational speed(RPM) | | 40 | 25 | 20 | 16.7 | 12.5 | | | |
| Without brakes | Rotor inertia(g·mm ²) | 1244894 | | | | | | | |
| | OD*Length(mm) | Ø 142*133.9 | | | | | | | |
| | Weight(kg) | 6.49 | | | | | | | |
| With brakes | Rotor inertia (g·mm ²) | 1273287 | | | | | | | |
| | OD*Length(mm) | Ø 142*133.9 | | | | | | | |
| | Weight(kg) | 6.7 | | | | | | | |
| Common parameters | | Supply voltage: 48V(±10%) Inner diameter:18mm IP54 & Friction brake | | | | | | | |
| Optional device | | Communication type: EtherCAT/CANopen/Modbus Output encoder resolution:19/20 Bit RP/AP:±7/±15 arc sec or ±10/±25 arc sec | | | | | | | |
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS APPLY BEFORE COATINGS REMOVE ALL SHARP BURRS AND BREAK ALL SHARP EDGES | | MODEL | | DRAWG NO. | | QTY. | SCALE | MATERIAL | SURFACE TREATMENT |
| | | eRob 142I | | | | | | | |
| UNSPECIFIED DIMENSIONAL TOLERANCE | | | NAME | DATE | SIZE | VERSION | | 2:3 | |
| > 0.5-3 | | ±0.1 | | | | | | | |
| > 3-6 | | ±0.1 | | | | | | | |
| > 6-30 | | ±0.2 | | | | | | | |
| > 30-120 | | ±0.3 | | | | | | | |
| > 120-400 | | ±0.5 | | | | | | | |
| ANGULAR TOLERANCE:±1° | | APPROV | | | THIRD ANGLE |  |  ZeroErr Control Co., Ltd | | |

MILLIMETERS