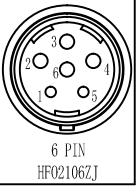


| 角号 Pin | 定义 Function | 颜色 COLOR |
|-----------|----------------|-----------------|
| 1 | NC | NC |
| 2 | U | 黄 YELLOW |
| 3 | V | 红 RED |
| 4 | W | 黑 BLACK |
| 5 | NC | NC |
| 6 | PE | 黄绿 YELLOW/GREEN |

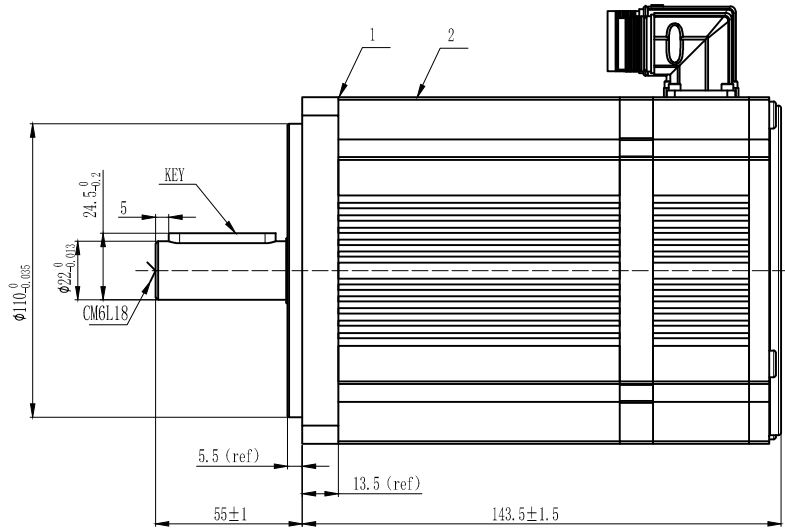


动力 Power

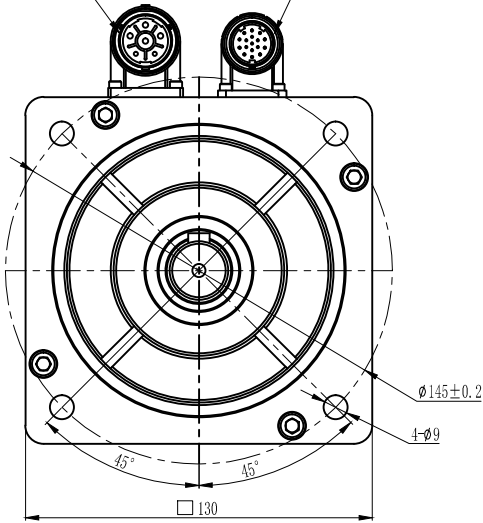
| 角号 Pin | 定义 Function | 颜色 COLOR | 角号 Pin | 定义 Function | 颜色 COLOR |
|-----------|----------------|-------------|-----------|----------------|-------------|
| 1 | VCC +5V | 红 RED | 10 | NC | NC |
| 2 | GND | 黑 BLACK | 11 | NC | NC |
| 3 | VB+ | 棕 BROWN | 12 | NC | NC |
| 4 | VB- | 白 WHITE | 13 | SHIELDING | |
| 5 | NC | NC | 14 | NC | NC |
| 6 | NC | NC | 15 | NC | NC |
| 7 | NC | NC | 16 | SD+ | 蓝 BLUE |
| 8 | NC | NC | 17 | SD- | 黄 YELLOW |
| 9 | NC | NC | | | |



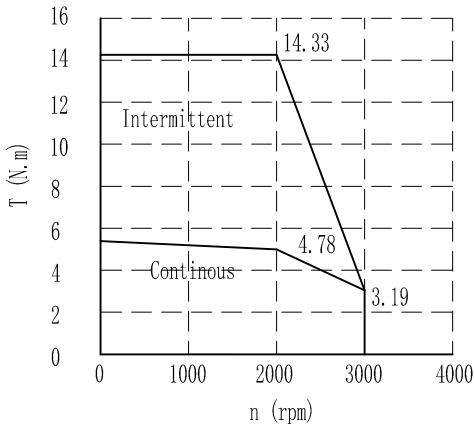
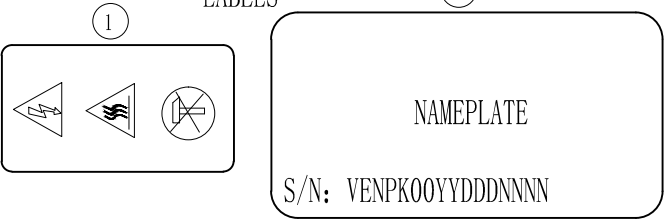
反馈 Feedback



6 PIN MOTOR CONNECTOR 17 PIN ENCODER CONNECTOR



LABELS



| VER | DESCRIPTION OF CHANGE | V1.1 | KA220324 | LJ | SL | 2022.08.16 | DESIGN | DATE | P/NO. | 9.7657 |
|------|-----------------------|------|----------|--------|-------|------------|------------------------|--------------|--------------|-------------------------|
| V1.1 | 电参数变更 | VER | ECN NO. | CHANGE | APP'D | DATE | LJ | 2022-04-14 | TITLE | Outside Drawing |
| | | | | | | | CHECK | | USED ON | SMC130D-0100-20QAK-5LSP |
| | | | | | | | LSJ | 2022-04-14 | SCALE: 1:2.5 | VER: V1.1 |
| | | | | | | | APPROVE | | | |
| | | | | | | | SL | 2022-04-14 | | |
| | | | | | | | FIRST ANGLE PROJECTION | | | |
| | | | | | | | | SHEET 1 OF 1 | | |

技术参数 Technical Data

| | |
|--|--|
| 极数 No. of poles | 10 |
| 母线电压 DC Link Voltage U_{dc} (V) | 320 |
| 额定功率 Rated Power P_N (W) | 1000 |
| 额定转矩 Rated Torque T_N (N.m) | 4.78 |
| 额定转速 Rated Speed n_n (rpm) | 2000 |
| 额定电流 Rated Current I_N (A) | 4.5(ref.) (V1.1) |
| 最大转矩 Maximum torque T_m (N.m) | 14.34 |
| 最大电流 Maximum Current I_m (A) | 14.5(ref.) |
| 连续静态转矩 Standstill torque T_s (N.m) | 5.27 |
| 连续静态电流 Standstill Current I_s (A) | 5(ref.) |
| 线电阻 Resistance line-line R_c (Ω) | 1.54(ref.) (V1.1) |
| 线电感 Inductance line-line L_c (mH) | 13.8(ref.) |
| 电气时间常数 Electrical time constant τ_e (ms) | 8.96 |
| 机械时间常数 Mechanical time constant τ_m (ms) | 1.9 |
| 反电势常数 Voltage constant K_e (V/krpm) | 73.4(ref.) (V1.1) |
| 转矩常数 Torque constant K_t (Nm/A) | 1.21 |
| 转动惯量 Rotor moment of inertia J_m (kg.cm ²) | 10.6 |
| 最大径向力 Max. radial force F_r (N) | 980 |
| 最大轴向力 Max. axial force F_a (N) | 392 |
| 反馈装置 Feed back device | 16/17bit Multi-turn Absolute encoder (NRZ) |
| 绝缘等级 Insulation class | F |
| 防护等级 Protection level | IP65, shaft sealing IP54 |
| 重量 Weight (Kg) | 6 |