

|                     |       |
|---------------------|-------|
| 静态扭矩Static Friction | 15Nm  |
| 电压 Voltage          | 24VDC |
| 功率 Power            | 29W   |

刹车参数 Brake Data

| 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR     |  |
|-----------|----------------|-----------------|--|
| 1         | BRAKE(+)       | 红 RED           |  |
| 2         | U              | 黄 YELLOW        |  |
| 3         | V              | 红 RED           |  |
| 4         | W              | 黑 BLACK         |  |
| 5         | BRAKE(-)       | 黑 BLACK         |  |
| 6         | PE             | 黄绿 YELLOW/GREEN |  |

6 PIN  
HF02106ZJ

动力 Power

| 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR | 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR |  |
|-----------|----------------|-------------|-----------|----------------|-------------|--|
| 1         | VCC +5V        | 红 RED       | 10        | NC             | NC          |  |
| 2         | GND            | 黑 BLACK     | 11        | NC             | NC          |  |
| 3         | NC             | NC          | 12        | NC             | NC          |  |
| 4         | NC             | NC          | 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          |           |                |             |  |

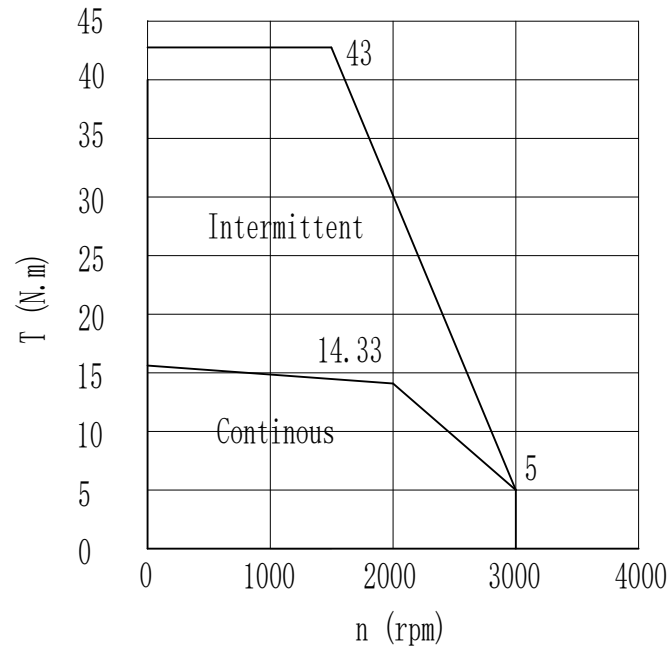
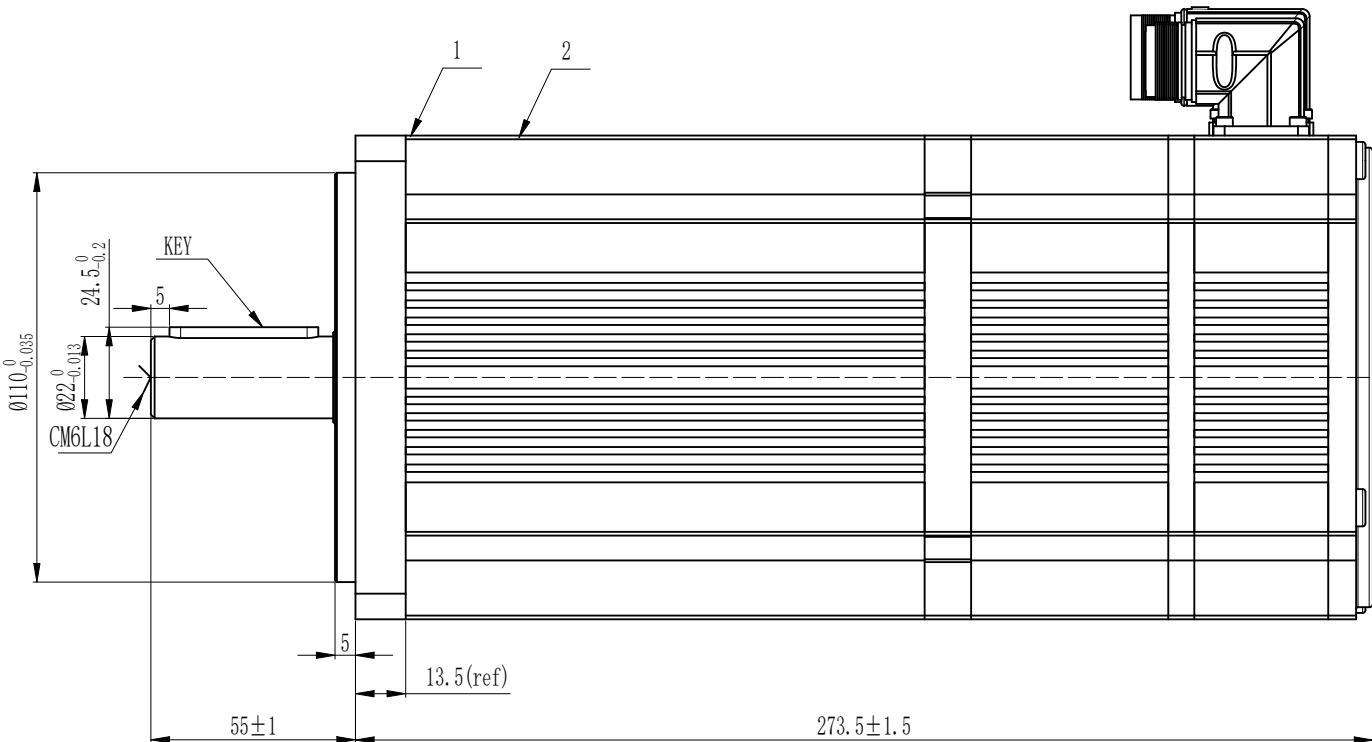
17 PIN  
HF01817ZJ

反馈 Feedback

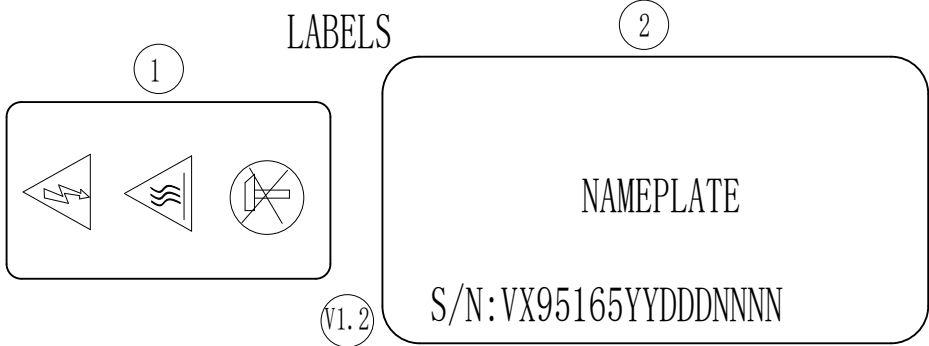
受控

6 PIN MOTOR CONNECTOR

17 PIN ENCODER CONNECTOR



LABELS



| 技术参数 Technical Data                                      |                                             |
|----------------------------------------------------------|---------------------------------------------|
| 极数 No. of poles                                          | 10                                          |
| 母线电压 DC Link Voltage $U_{dc}$ (V)                        | 560                                         |
| 额定功率 Rated Power $P_n$ (W)                               | 3000                                        |
| 额定转矩 Rated Torque $T_n$ (N.m)                            | 14.33                                       |
| 额定转速 Rated Speed $n_n$ (rpm)                             | 2000                                        |
| 额定电流 Rated Current $I_n$ (A)                             | 7(ref.)                                     |
| 最大转矩 Maximum torque $T_m$ (N.m)                          | 43                                          |
| 最大电流 Maximum Current $I_m$ (A)                           | 22.7(ref.)                                  |
| 连续静态转矩 Standstill torque $T_s$ (N.m)                     | 15.8                                        |
| 连续静态电流 Standstill Current $I_s$ (A)                      | 7.7(ref.)                                   |
| 线电阻 Resistance line-line $R_L$ ( $\Omega$ )              | 1.397                                       |
| 线电感 Inductance line-line $L_L$ (mH)                      | 14.46                                       |
| 电气时间常数 Electrical time constant $\tau_e$ (ms)            | 10.35                                       |
| 机械时间常数 Mechanical time constant $\tau_m$ (ms)            | 1.24                                        |
| 反电势常数 Voltage constant $K_e$ (V/krpm)                    | 154.8                                       |
| 转矩常数 Torque constant $K_t$ (Nm/A)                        | 2.456                                       |
| 转动惯量 Rotor moment of inertia $J_m$ (Kg.cm <sup>2</sup> ) | 31                                          |
| 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                                    | 23bit Single-turn<br>Absolute encoder (NRZ) |
| 绝缘等级 Insulation class                                    | F                                           |
| 防护等级 Protection level                                    | IP65, shaft sealing IP54                    |
| 重量 Weight (Kg)                                           | 14.5                                        |

|      |                       |                                                           |           |                                                                                       |                    |            |                        |            |                         |           |                 |
|------|-----------------------|-----------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|--------------------|------------|------------------------|------------|-------------------------|-----------|-----------------|
| VER  | DESCRIPTION OF CHANGE | V1.2                                                      | ECN240146 | LTL                                                                                   | WJH                | 2024-07-22 | DESIGN                 | DATE       | P/NO.                   | 9.5165    |                 |
| V1.1 | 电阻电感修正                | VER                                                       | ECN NO.   | CHANGE                                                                                | APP'D              | DATE       | LJ                     | 2022-08-16 | TITLE Outside Drawing   |           |                 |
| V1.2 | 更新料号、铭牌               | FINAL TOLERANCE REFERENCE<br>GB/T 1804-m Unit:mm<br>LINER |           |                                                                                       | MATERIAL           |            | CHECK                  | 2022-08-16 | TITLE                   |           | Outside Drawing |
|      | LSJ                   |                                                           |           |                                                                                       |                    |            | USED ON                |            | SMC130D-0300-20VBK-5HSP |           |                 |
|      | APPROVE               |                                                           |           |                                                                                       |                    |            | SCALE: 1:2.5           |            |                         | VER: V1.2 |                 |
|      | SL                    |                                                           |           |                                                                                       |                    |            | 2022-08-16             |            |                         |           |                 |
|      |                       |                                                           |           |                                                                                       | ≤6 ±0.1 >6~30 ±0.2 |            | FIRST ANGLE PROJECTION |            | SHEET 1 OF 1            |           | KINCO           |
|      |                       | >30~120 ±0.3 >120~400 0.5                                 |           |                                                                                       |                    |            |                        |            |                         |           |                 |
|      |                       |                                                           |           |  |                    |            |                        |            |                         |           |                 |