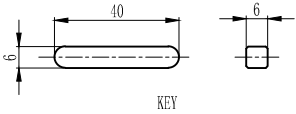


|                      |       |
|----------------------|-------|
| 静态扭矩 Static Friction | 15Nm  |
| 电压 Voltage           | 24VDC |
| 功率 Power             | 29W   |

刹车参数 Brake Data



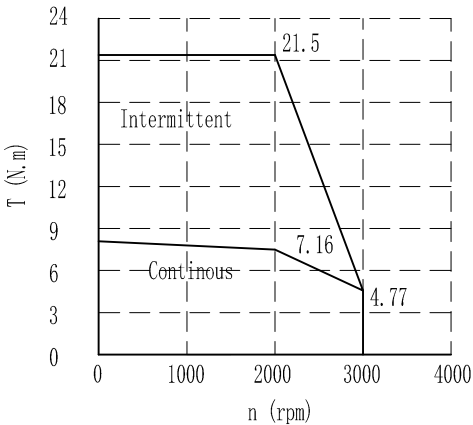
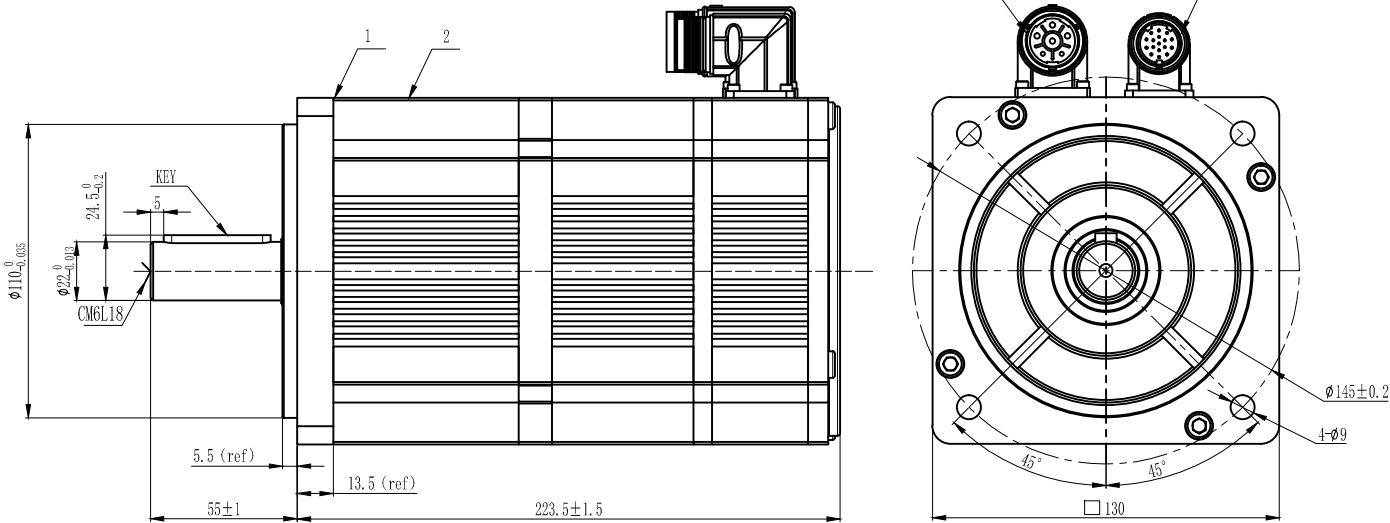
| 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR     |
|-----------|----------------|-----------------|
| 1         | BRAKE(+)       | 红 RED           |
| 2         | U              | 黄 YELLOW        |
| 3         | V              | 红 RED           |
| 4         | W              | 黑 BLACK         |
| 5   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

动力 Power

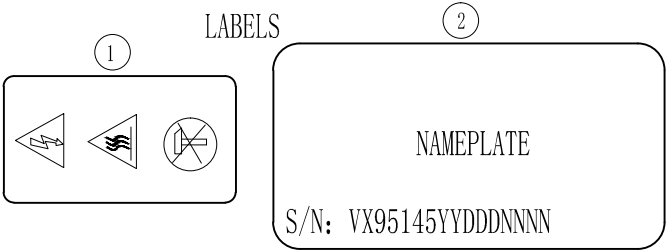
| 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR | 角号<br>Pin | 定义<br>Function | 颜色<br>COLOR |
|-----------|----------------|-------------|-----------|----------------|-------------|
| 1         | VCC +5V        | 红 RED       | 10        | NC             | NC          |
| 2         | GND            | 黑 BLACK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



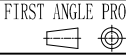
LABELS



| 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)                               | 1500                                       |
| 额定转矩 Rated Torque $T_n$ (N.m)                            | 7.16                                       |
| 额定转速 Rated Speed $n_n$ (rpm)                             | 2000                                       |
| 额定电流 Rated Current $I_n$ (A)                             | 7.7(ref.)                                  |
| 最大转矩 Maximum torque $T_s$ (N.m)                          | 21.5                                       |
| 最大电流 Maximum Current $I_s$ (A)                           | 25(ref.)                                   |
| 连续静态转矩 Standstill torque $T_s$ (N.m)                     | 7.9                                        |
| 连续静态电流 Standstill Current $I_s$ (A)                      | 8.5(ref.)                                  |
| 线电阻 Resistance line-line $R$ ( $\Omega$ )                | 0.63(ref.)                                 |
| 线电感 Inductance line-line $L$ (mH)                        | 6.9(ref.)                                  |
| 电气时间常数 Electrical time constant $\tau_e$ (ms)            | 10.95                                      |
| 机械时间常数 Mechanical time constant $\tau_m$ (ms)            | 1.48                                       |
| 反电势常数 Voltage constant $K_e$ (V/krpm)                    | 66.9(ref.)                                 |
| 转矩常数 Torque constant $K_t$ (Nm/A)                        | 1.1                                        |
| 转动惯量 Rotor moment of inertia $J_m$ (Kg.cm <sup>2</sup> ) | 16.95                                      |
| 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                                    | 16/23bit 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)                                           | 10.5                                       |

| VER | DESCRIPTION OF CHANGE | VER | ECN NO. | CHANGE | APP'D | DATE | DESIGN                 | DATE         | P/NO.        | 9.5145                  |
|-----|-----------------------|-----|---------|--------|-------|------|------------------------|--------------|--------------|-------------------------|
|     |                       |     |         |        |       |      | LJ                     | 2022-08-16   | TITLE        | Outside Drawing         |
|     |                       |     |         |        |       |      | CHECK                  |              | USED ON      | SMC1300-0150-20VBR-5LSP |
|     |                       |     |         |        |       |      | LSJ                    | 2022-08-16   | SCALE: 1:2.5 | VER: V1.0               |
|     |                       |     |         |        |       |      | APPROVE                |              |              |                         |
|     |                       |     |         |        |       |      | SL                     | 2022-08-16   |              |                         |
|     |                       |     |         |        |       |      | FIRST ANGLE PROJECTION |              |              |                         |
|     |                       |     |         |        |       |      |                        | SHEET 1 OF 1 |              |                         |

FINAL TOLERANCE REFERENCE  
GB/T 1804-m Unit:mm  
LINER  
≤6 ±0.1 >6~30 ±0.2  
>30~120 ±0.3 >120~400 0.5



SHEET 1 OF 1

KINCO