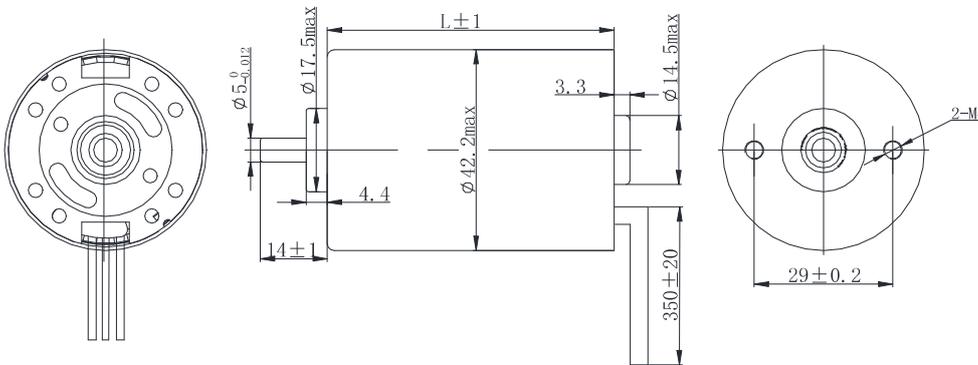


机械尺寸

(Dimensions)



选件 Options



接插件

齿轮箱

特性概要

(General Specifications)

| | |
|------------------------------|--|
| 绕组连接方式 (Winding Type) | 星形 (Star connection) |
| 霍尔分布角度 (Hall Effect Angle) | 120度电角度 (Electrical Angle of 120 degree) |
| 径向间隙 (Radial Play) | 0.02mm@450g |
| 轴向间隙 (Axial Play) | 0.08mm@450g |
| 最大径向负载 (Max radial force) | 15N 距法兰10mm (10mm From the flange) |
| 最大轴向负载 (Max axial force) | 10N |
| 介电强度 (Dielectric Strength) | 600VAC/1S |
| 绝缘电阻 (Insulation Resistance) | 100MΩ, 500VDC |
| 环境温度 (Ambient Temperature) | -20°C ~ +50°C |
| 绝缘等级 (Insulation Class) | Class B |

接线说明

(Electric Connection)

| 引出线型号 Type | 引出线颜色 Color | 功能 Functions |
|---------------|----------------|-----------------|
| UL1430 AWG26 | 红色 (Red) | 霍尔电源正 (Vcc) |
| | 蓝色 (Blue) | 霍尔 U (Hu) |
| | 绿色 (Green) | 霍尔 V (Hv) |
| | 白色 (White) | 霍尔 W (Hw) |
| | 黑色 (Black) | 霍尔电源负 (GND) |
| UL1332 AWG22 | 黄色 (Yellow) | U相 (Phase U) |
| | 红色 (Red) | V相 (Phase V) |
| | 黑色 (Black) | W相 (Phase W) |

电性能

(Electrical Specifications)

| | 单位 (Unit) | FL42CBL60-24V-3240A | FL42CBL60-24V-5943 | FL42CBL66-24V-4063A |
|----------------------------------|-------------------|---------------------|--------------------|---------------------|
| 极数 (Number of poles) | | 8 | | |
| 相数 (Number of phases) | | 3 | | |
| 额定电压 (Rated voltage) | VDC | 24 | | |
| 额定转矩 (Rated torque) | mN.m | 120 | 68 | 150 |
| 连续运行转矩 (Continuous stall torque) | mN.m | 144 | 81.6 | 180 |
| 额定速度 (Rated speed) | RPM | 3200 | 5900 | 4000 |
| 额定功率 (Rated power) | W | 40 | 43 | 63 |
| 峰值扭矩 (Peak torque) | mN.m | 360 | 204 | 450 |
| 峰值电流 (Peak current) | A | 6.7 | 6.3 | 11.2 |
| 线电阻 (Line to line resistance) | ohms@20°C | 1.2 | 0.6 | 0.75 |
| 线电感 (Line to line inductance) | mH | 1.6 | 0.63 | 0.8 |
| 转矩常数 (Torque constant) | mN.m/A | 54 | 32.4 | 40.5 |
| 反电势 (Back EMF) | Vrms/KRPM | 4.0 | 2.4 | 3 |
| 转动惯量 (Rotor inertia) | g.cm ² | 44 | 44 | 55 |
| 机身长度 (Motor length) L | mm | 60 | 60 | 66 |
| 重量 (Weight) | Kg | 0.35 | 0.35 | 0.44 |