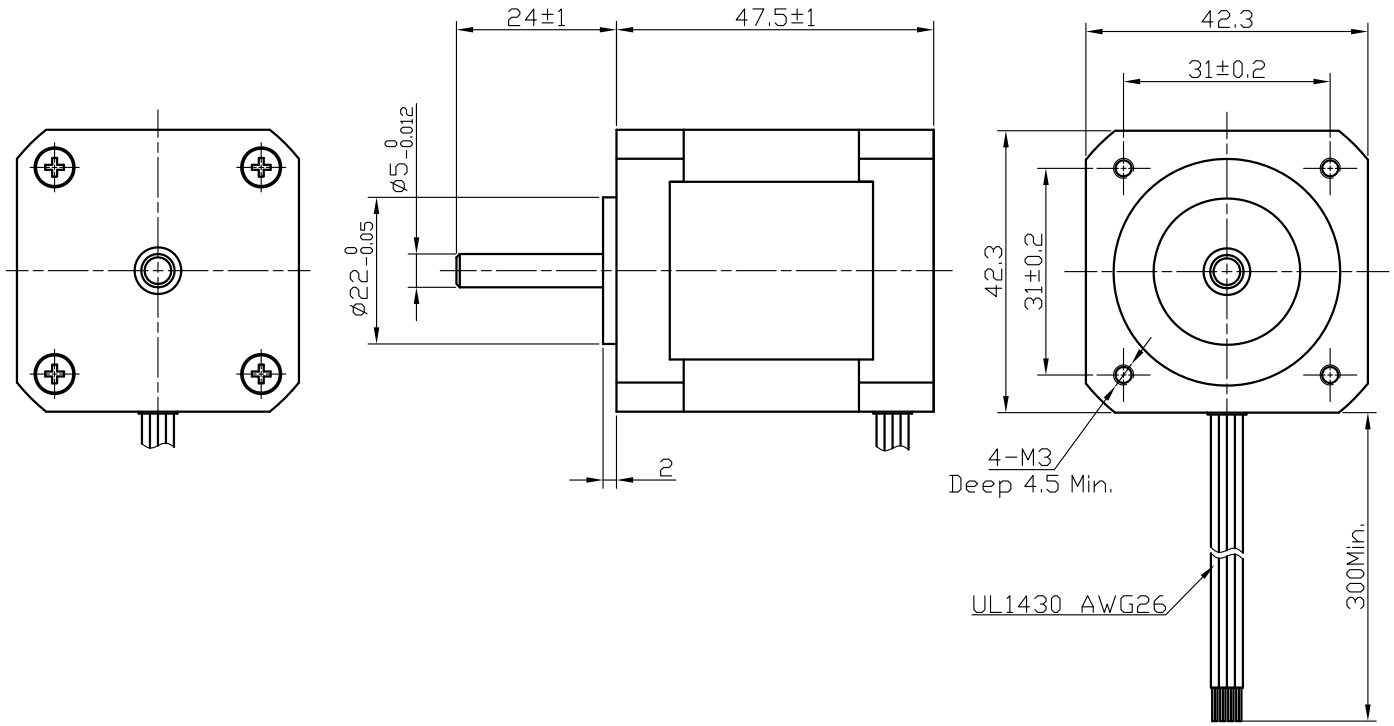
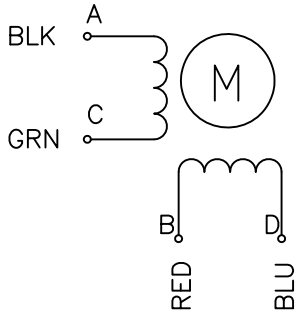
| REV | ECN NO. | DESCRIPTION | DRN | APP'D | DATE |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |




## Wiring Diagram(接线图)




## Exciting Sequence(励磁顺序)

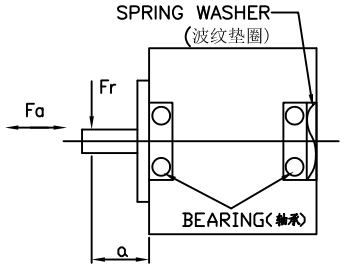
| CW DIRECTION | STEP | A | C | B | D |
|---|---|---|---|---|---|
| ⇩ | 1 | + | | + | |
| | 2 | | + | + | |
| | 3 | | + | | + |
| | 4 | + | | | + |
| | 1 | + | | + | |

CW,see from flange side
(顺时针，从法兰侧看)

## SPECIFICATION

| | | |
|---|---|---|
| STEP ANGLE | 步距角 | 1.8°/full step(整步) |
| STEP ANGLE ACCURACY | 步距角精度 | ±5% |
| NUMBER OF PHASE | 绕组相数 | 2 |
| RATED VOLTAGE | 额定电压 | 2.8 V |
| RATED CURRENT | 额定电流 | 1.68 A |
| RESISTANCE/PHASE | 每相电阻 | 1.65±10% ohms@20°C |
| INDUCTANCE/PHASE | 每相电感 | 2.8±20% mH@1kHz |
| HOLDING TORQUE | 保持转矩 | 4400 g.cm |
| PULL OUT TORQUE | 运行转矩 | |
| BACK EMF | 反电动势 | |
| DETENT TORQUE | 定位转矩 | |
| ROTOR INERTIA | 转子转动惯量 | 68 g.cm² |
| WEIGHT | 重量 | 350 g |
| TEMPERATURE RISE | 温升 | Less than 80K(小于80开) |
| SOURCE VOLTAGE | 驱动器电压 | 24 VDC |
| INSULATION CLASS | 绝缘等级 | B 130°C |
| DIELECTRIC STRENGTH | 介电强度 | 500VAC 1MIN |
| INSULATION RESISITANCE | 绝缘电阻 | 100MOhm @500VDC |
| IP CODE | 防护等级 | IP30 |
| OPERATION AMBIENT | 使用环境 | Ambient temperature:-20...+50°C,humidity Max. 85%(No condensation) |
| STORAGE AMBIENT | 存储环境 | Ambient temperature:-20...+85°C,humidity Max. 85%(No condensation) |

PERMISSIBLE RADIAL+AXIAL FORCE
(允许的轴向和径向力)




| | | |
|---|---|---|
| AXIAL-FORCE | 轴向压力 | Fa=10 N Max. |
| DISTANCE | 距离 | a=20 mm |
| RADIAL-FORCE | 径向压力 | Fr=28 N Max. |
| | | |
| SHAFT RADIAL PLAY | 径向间隙 | 0.02mm Max. @4N |
| SHAFT AXIAL PLAY | 轴向间隙 | 0.08mm Max. @4N |

UNLESS OTHERWISE SPECIFIED
TOLERANCES:
DECIMALS: ANGULAR:
.x ±0.5
.xx ±0.25 ±0°30'
.xxx ±0.1
UNIT: mm
DO NOT SCALE DRAWING

MATERIAL | CONTR. | DESIGN | DATE | CHECK | APPD

FIRST ANGLE PROJECTION

SCALE NTS
SHEET OF

P/N. 3.1.01.042.****
TITLE Specifications
USED ON FL42STH47-1684A
DWG NO. REV A

FULLING MOTOR