飞机起落架测试报告

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| --- | --- |
| 测试大纲 | /TestStand/飞机起落架测试大纲\_v1.0.0.0.docx |
| CSV激励文件 | /TestStand/LandingGear\_Stimulus\_v1.0.0.0.csv |
| CSV测试文件 | /TestStand/LandingGear\_Test\_v1.0.0.0.csv |
| TestStand测试序列 | /TestStand/Demo-VeriStandStep-TS2017.seq\_v1.0.0.0.seq |
| Word报告模板 | /TestStand/Word Report/LandingGearTestReportTemplate\_v1.1.0.0.dotx |

|  |  |
| --- | --- |
| 测试开始时间 | Wednesday, June 28, 2023, 9:27:35 |
| 测试结束时间 | Wednesday, June 28, 2023, 9:29:26 |
| 操作员 | administrator |
| UUT编号 |  |
| 测试结果 | Failed |

# 功能测试

## 激励给定

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | 阶段 | 激励文件标签 | 激励开始时间 System Time [s] | 激励结束时间 System Time [s] |
| 1 | 启动阶段 | #Startup | 817.9 | 838.1 |
| 2 | 测试阶段 | #Action | 838.4 | 886.9 |
| 3 | 停止阶段 | #Cleanup | 896.3 | 911.6 |

## 测试指标：N电机电流不超过0.4A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| System Time [s] | N Motor Current [A] | Low Limit [A] | High Limit [A] | Test Result |
| 838.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 841.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 844.4 | -0.003878 | -0.2 | 0.4 | Passed |
| 847.1 | -0.00416797 | -0.2 | 0.4 | Passed |
| 850.4 | -0.00368469 | -0.2 | 0.4 | Passed |
| 853.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 856.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 859.5 | -0.00384578 | -0.2 | 0.4 | Passed |
| 862.6 | -0.00442572 | -0.2 | 0.4 | Passed |
| 865.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 869.1 | -0.00362025 | -0.2 | 0.4 | Passed |
| 872.5 | -0.00413575 | -0.2 | 0.4 | Passed |

## 测试指标：实际执行位置/角度与仿真数据误差不超过10%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| System Time  [s] | Simulated Position  [degree] | Actual Position  [degree] | Accuracy  [%] | Accuracy Limit  [%] | Test Result |
| 839.2 | 138.437 | 138.421 | 0.01155 | 10 | Passed |
| 842.3 | 138.437 | 138.422 | 0.01102 | 10 | Passed |
| 845.2 | 138.437 | 138.421 | 0.0119416 | 10 | Passed |
| 848.1 | 138.437 | 138.426 | 0.00826162 | 10 | Passed |
| 851.1 | 138.437 | 138.422 | 0.0109938 | 10 | Passed |
| 854.1 | 138.437 | 138.421 | 0.0115514 | 10 | Passed |
| 857.2 | 138.437 | 138.425 | 0.00878036 | 10 | Passed |
| 860.5 | 138.437 | 138.419 | 0.0128819 | 10 | Passed |
| 863.7 | 138.437 | 138.424 | 0.00962288 | 10 | Passed |
| 866.9 | 138.437 | 138.425 | 0.00906781 | 10 | Passed |
| 870.4 | 138.437 | 138.423 | 0.0100488 | 10 | Passed |
| 873.5 | 138.437 | 20.4893 | 85.1995 | 10 | Failed |

## 测试数据记录

