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 | Tuesday, June 20, 2023, 11:17:00 |
| 测试结束时间 | Tuesday, June 20, 2023, 11:19:02 |
| 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 | 796.6 | 816.8 |
| 2 | 测试阶段 | #Action | 817.2 | 880.8 |
| 3 | 停止阶段 | #Cleanup | 899.3 | 899.3 |

## 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 |
| 817.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 819.9 | 0.387358 | -0.2 | 0.4 | Passed |
| 822.4 | 0.386907 | -0.2 | 0.4 | Passed |
| 825.1 | -0.00484457 | -0.2 | 0.4 | Passed |
| 827.6 | -0.00384578 | -0.2 | 0.4 | Passed |
| 830.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 833.1 | -0.00384578 | -0.2 | 0.4 | Passed |
| 835.5 | -0.0542685 | -0.2 | 0.4 | Passed |
| 838.1 | -0.0904826 | -0.2 | 0.4 | Passed |
| 840.7 | -0.00426463 | -0.2 | 0.4 | Passed |
| 843.2 | -0.00400688 | -0.2 | 0.4 | Passed |
| 845.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 848.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 851.2 | -0.00384578 | -0.2 | 0.4 | Passed |
| 853.9 | -0.00429685 | -0.2 | 0.4 | Passed |
| 856.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 859.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 862.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 865.0 | -0.0032014 | -0.2 | 0.4 | Passed |
| 867.7 | -0.00391022 | -0.2 | 0.4 | Passed |
| 870.7 | -0.00384578 | -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 |
| 817.9 | 20.9766 | 21.0464 | -0.332921 | 10 | Passed |
| 820.5 | 60.44 | 59.9366 | 0.832913 | 10 | Passed |
| 823.1 | 109.39 | 108.798 | 0.540845 | 10 | Passed |
| 825.8 | 138.987 | 138.971 | 0.0118203 | 10 | Passed |
| 828.4 | 138.987 | 138.973 | 0.0101173 | 10 | Passed |
| 831.2 | 138.987 | 138.968 | 0.0138476 | 10 | Passed |
| 833.8 | 133.865 | 134.42 | -0.414657 | 10 | Passed |
| 836.1 | 88.33 | 88.9046 | -0.650464 | 10 | Passed |
| 838.8 | 38.2418 | 38.9056 | -1.73569 | 10 | Passed |
| 841.4 | 20.9766 | 21.0472 | -0.336743 | 10 | Passed |
| 843.8 | 20.9766 | 21.0484 | -0.342096 | 10 | Passed |
| 846.6 | 20.9766 | 21.0487 | -0.343662 | 10 | Passed |
| 849.4 | 20.9766 | 21.0484 | -0.34252 | 10 | Passed |
| 852.0 | 45.831 | 45.4371 | 0.859452 | 10 | Passed |
| 854.6 | 95.9192 | 96.6968 | -0.810757 | 10 | Passed |
| 857.4 | 137.09 | 142.112 | -3.66345 | 10 | Passed |
| 860.1 | 137.09 | 142.126 | -3.67361 | 10 | Passed |
| 863.0 | 137.09 | 142.132 | -3.67775 | 10 | Passed |
| 865.8 | 136.711 | 142.136 | -3.96868 | 10 | Passed |
| 868.6 | 84.3457 | 89.8362 | -6.5095 | 10 | Passed |
| 871.5 | 28.5467 | 35.0741 | -22.8656 | 10 | Failed |

## 测试数据记录

