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 | Friday, February 10, 2023, 15:55:53 |
| 测试结束时间 | Friday, February 10, 2023, 15:57:16 |
| 操作员 | administrator |
| UUT编号 | 1 |
| 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 | 14685.8 | 14700.9 |
| 2 | 测试阶段 | #Action | 14701.1 | 14764.6 |
| 3 | 停止阶段 | #Cleanup | 14764.7 | 14764.7 |

## 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 |
| 14701.1 | -0.00432907 | -0.2 | 0.4 | Passed |
| 14703.2 | 0.390193 | -0.2 | 0.4 | Passed |
| 14705.6 | 0.389774 | -0.2 | 0.4 | Passed |
| 14708.1 | 0.389452 | -0.2 | 0.4 | Passed |
| 14710.9 | -0.00429685 | -0.2 | 0.4 | Passed |
| 14713.8 | -0.00378134 | -0.2 | 0.4 | Passed |
| 14716.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 14719.3 | -0.0804625 | -0.2 | 0.4 | Passed |
| 14721.8 | -0.0251747 | -0.2 | 0.4 | Passed |
| 14724.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 14728.1 | -0.00407132 | -0.2 | 0.4 | Passed |
| 14731.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 14734.4 | -0.00436129 | -0.2 | 0.4 | Passed |
| 14737.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 14739.8 | -0.00397466 | -0.2 | 0.4 | Passed |
| 14742.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 14745.1 | -0.00378134 | -0.2 | 0.4 | Passed |
| 14747.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 14750.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 14753.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 14756.5 | -0.00397466 | -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 |
| 14701.7 | 15.8919 | 15.9367 | -0.281824 | 10 | Passed |
| 14703.9 | 47.5765 | 47.0801 | 1.04335 | 10 | Passed |
| 14706.2 | 90.8534 | 90.2904 | 0.619741 | 10 | Passed |
| 14708.7 |  | 138.088 | 0.415715 | 10 | Passed |
| 14711.8 | 139.044 | 139.039 | 0.00418241 |  | Passed |
| 14714.5 | 139.044 | 139.038 | 0.00470422 | 10 | Passed |
| 14717.0 | 139.044 | 139.039 | 0.00370206 | 10 | Passed |
| 14720.0 | 87.4383 | 88.0149 | -0.659372 | 10 | Passed |
| 14722.7 | 36.2118 | 36.8643 | -1.80209 | 10 | Passed |
| 14725.9 | 20.8438 | 20.9015 | -0.276853 | 10 | Passed |
| 14729.2 | 20.8438 | 20.9044 | -0.290619 | 10 | Passed |
| 14732.4 | 20.8438 | 20.9009 | -0.274237 | 10 | Passed |
| 14735.3 | 36.4015 | 34.243 | 5.92967 | 10 | Passed |
| 14738.0 | 86.4897 | 84.2689 | 2.56769 | 10 | Passed |
| 14740.6 | 135.439 | 133.889 | 1.14444 | 10 | Passed |
| 14743.3 | 139.234 | 141.766 | -1.81877 | 10 | Passed |
| 14745.9 | 139.234 | 141.777 | -1.82613 | 10 | Passed |
| 14748.6 | 139.234 | 141.783 | -1.83093 | 10 | Passed |
| 14751.4 | 104.514 | 108.048 | -3.38115 | 10 | Passed |
| 14754.4 | 47.5954 | 51.2787 | -7.73865 | 10 | Passed |
| 14757.2 | 15.3417 | 21.0045 | -36.9116 | 10 | Failed |

## 测试数据记录

