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, June 30, 2023, 10:48:15 |
| 测试结束时间 | Friday, June 30, 2023, 10:49:55 |
| 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 | 40.7 | 61.2 |
| 2 | 测试阶段 | #Action | 61.4 | 124.9 |
| 3 | 停止阶段 | #Cleanup | 125.0 | 125.1 |

## 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 |
| 61.4 | -0.003878 | -0.2 | 0.4 | Passed |
| 64.1 | 0.387068 | -0.2 | 0.4 | Passed |
| 66.5 | 0.386778 | -0.2 | 0.4 | Passed |
| 69.0 | -0.0065844 | -0.2 | 0.4 | Passed |
| 71.6 | -0.00423241 | -0.2 | 0.4 | Passed |
| 74.0 | -0.00432907 | -0.2 | 0.4 | Passed |
| 76.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 79.1 | -0.0566205 | -0.2 | 0.4 | Passed |
| 81.5 | -0.0967331 | -0.2 | 0.4 | Passed |
| 83.9 | -0.00809869 | -0.2 | 0.4 | Passed |
| 86.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 88.9 | -0.00391022 | -0.2 | 0.4 | Passed |
| 91.6 | -0.00384578 | -0.2 | 0.4 | Passed |
| 94.3 | -0.00432907 | -0.2 | 0.4 | Passed |
| 97.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 100.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 102.8 | -0.00381356 | -0.2 | 0.4 | Passed |
| 105.5 | -0.00391022 | -0.2 | 0.4 | Passed |
| 108.0 | -0.003878 | -0.2 | 0.4 | Passed |
| 110.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 113.4 | -0.00426463 | -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 |
| 62.2 | 10.4978 | 10.5295 | -0.302068 | 10 | Passed |
| 64.7 | 30.8935 | 30.6373 | 0.829312 | 10 | Passed |
| 67.2 | 54.2301 | 53.9357 | 0.542771 | 10 | Passed |
| 69.7 | 69.5032 | 69.497 | 0.00891907 | 10 | Passed |
| 72.2 | 69.5032 | 69.4976 | 0.00800271 | 10 | Passed |
| 74.7 | 69.5032 | 69.4963 | 0.0099554 | 10 | Passed |
| 77.2 | 69.5032 | 69.4975 | 0.00818494 | 10 | Passed |
| 79.7 | 50.0466 | 50.3236 | -0.553551 | 10 | Passed |
| 82.1 | 27.2792 | 27.6029 | -1.1866 | 10 | Passed |
| 84.6 | 10.4883 | 10.5215 | -0.316661 | 10 | Passed |
| 87.1 | 10.4883 | 10.5218 | -0.319007 | 10 | Passed |
| 89.6 | 10.4883 | 10.5211 | -0.312636 | 10 | Passed |
| 92.5 | 10.4883 | 10.5205 | -0.306562 | 10 | Passed |
| 95.1 | 13.1445 | 12.4437 | 5.33143 | 10 | Passed |
| 98.0 | 41.0345 | 42.0011 | -2.35567 | 10 | Passed |
| 101.0 | 67.9854 | 70.0303 | -3.00796 | 10 | Passed |
| 103.6 | 67.9854 | 70.5999 | -3.84567 | 10 | Passed |
| 106.1 | 67.9854 | 70.6016 | -3.84822 | 10 | Passed |
| 109.1 | 67.9854 | 70.6029 | -3.85021 | 10 | Passed |
| 111.6 | 51.8585 | 55.2206 | -6.48329 | 10 | Passed |
| 114.3 | 26.2452 | 29.4249 | -12.1153 | 10 | Failed |

## 测试数据记录

