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, 9:56:52 |
| 测试结束时间 | Friday, June 30, 2023, 9:58:35 |
| 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 | 21.4 | 42.0 |
| 2 | 测试阶段 | #Action | 42.2 | 105.8 |
| 3 | 停止阶段 | #Cleanup | 106.0 | 106.1 |

## 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 |
| 42.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 44.6 | 0.386617 | -0.2 | 0.4 | Passed |
| 46.8 | 0.386294 | -0.2 | 0.4 | Passed |
| 49.0 | 0.386037 | -0.2 | 0.4 | Passed |
| 51.1 | -0.003878 | -0.2 | 0.4 | Passed |
| 53.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 55.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 58.3 | -0.00358803 | -0.2 | 0.4 | Passed |
| 60.8 | -0.0447961 | -0.2 | 0.4 | Passed |
| 63.4 | -0.0226939 | -0.2 | 0.4 | Passed |
| 65.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 68.3 | -0.00426463 | -0.2 | 0.4 | Passed |
| 70.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 73.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 75.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 78.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 80.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 83.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 85.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 88.4 | -0.003878 | -0.2 | 0.4 | Passed |
| 91.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 93.5 | -0.00391022 | -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 |
| 43.0 | 10.4883 | 10.5211 | -0.312896 | 10 | Passed |
| 45.2 | 26.71 | 26.4626 | 0.926235 | 10 | Passed |
| 47.3 | 46.6315 | 46.3467 | 0.610602 | 10 | Passed |
| 49.5 | 67.6913 | 67.3998 | 0.430558 | 10 | Passed |
| 51.6 | 69.4937 | 69.4889 | 0.00697014 | 10 | Passed |
| 54.0 | 69.4937 | 69.4866 | 0.0101921 | 10 | Passed |
| 56.4 | 69.4937 | 69.487 | 0.00969214 | 10 | Passed |
| 59.0 | 65.6043 | 65.8836 | -0.425688 | 10 | Passed |
| 61.5 | 41.6986 | 41.9894 | -0.697471 | 10 | Passed |
| 64.1 | 17.2236 | 17.5539 | -1.91719 | 10 | Passed |
| 66.5 | 10.4883 | 10.5203 | -0.305245 | 10 | Passed |
| 69.0 | 10.4883 | 10.5224 | -0.32525 | 10 | Passed |
| 71.3 | 10.4883 | 10.5211 | -0.313201 | 10 | Passed |
| 74.0 | 10.4883 | 10.5205 | -0.307183 | 10 | Passed |
| 76.5 | 17.6031 | 17.3891 | 1.21557 | 10 | Passed |
| 79.1 | 42.6472 | 44.0097 | -3.19485 | 10 | Passed |
| 81.6 | 65.9837 | 68.0711 | -3.16352 | 10 | Passed |
| 84.2 | 67.1221 | 70.6223 | -5.2146 | 10 | Passed |
| 86.6 | 67.1221 | 70.6242 | -5.21745 | 10 | Passed |
| 89.2 | 67.1221 | 70.6248 | -5.21842 | 10 | Passed |
| 91.8 | 57.8254 | 63.4461 | -9.72014 | 10 | Passed |
| 94.3 | 33.9102 | 38.4843 | -13.4887 | 10 | Failed |

## 测试数据记录

