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, 13:32:47 |
| 测试结束时间 | Wednesday, June 28, 2023, 13:34:31 |
| 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 | 34.0 | 54.2 |
| 2 | 测试阶段 | #Action | 54.5 | 118.1 |
| 3 | 停止阶段 | #Cleanup | 121.4 | 121.4 |

## 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 |
| 54.6 | -0.0040391 | -0.2 | 0.4 | Passed |
| 57.6 | 0.386552 | -0.2 | 0.4 | Passed |
| 60.6 | 0.385908 | -0.2 | 0.4 | Passed |
| 63.6 | -0.00391022 | -0.2 | 0.4 | Passed |
| 66.7 | -0.00381356 | -0.2 | 0.4 | Passed |
| 69.9 | -0.00368469 | -0.2 | 0.4 | Passed |
| 73.0 | -0.0246915 | -0.2 | 0.4 | Passed |
| 76.3 | -0.102726 | -0.2 | 0.4 | Passed |
| 79.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 82.3 | -0.00426463 | -0.2 | 0.4 | Passed |
| 85.3 | -0.00394244 | -0.2 | 0.4 | Passed |
| 88.3 | -0.00384578 | -0.2 | 0.4 | Passed |
| 91.7 | -0.003878 | -0.2 | 0.4 | Passed |
| 94.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 98.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 101.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 104.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 107.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 110.3 | -0.00410353 | -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 |
| 55.4 | 20.9766 | 21.0425 | -0.314421 | 10 | Passed |
| 58.6 | 74.8593 | 74.33 | 0.70712 | 10 | Passed |
| 61.6 | 131.778 | 131.192 | 0.444709 | 10 | Passed |
| 64.4 | 138.987 | 138.976 | 0.00853524 | 10 | Passed |
| 67.5 | 138.987 | 138.974 | 0.00997151 | 10 | Passed |
| 70.8 | 138.608 | 138.973 | -0.263615 | 10 | Passed |
| 74.0 | 77.1361 | 77.7351 | -0.776574 | 10 | Passed |
| 77.2 | 20.9766 | 21.0455 | -0.328517 | 10 | Passed |
| 80.2 | 20.9766 | 21.0442 | -0.322165 | 10 | Passed |
| 83.2 | 20.9766 | 21.0438 | -0.320234 | 10 | Passed |
| 86.2 | 20.9766 | 21.0419 | -0.311306 | 10 | Passed |
| 89.4 | 47.7282 | 44.9361 | 5.85011 | 10 | Passed |
| 92.8 | 111.477 | 111.279 | 0.177777 | 10 | Passed |
| 95.9 | 137.849 | 141.868 | -2.91572 | 10 | Passed |
| 99.1 | 137.849 | 141.875 | -2.92063 | 10 | Passed |
| 102.1 | 137.849 | 141.876 | -2.92131 | 10 | Passed |
| 105.1 | 98.5753 | 101.939 | -3.41243 | 10 | Passed |
| 108.2 | 39.3612 | 42.74 | -8.58404 | 10 | Passed |
| 111.2 | 15.6452 | 20.4813 | -30.9109 | 10 | Failed |

## 测试数据记录

