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 | Thursday, June 29, 2023, 9:22:59 |
| 测试结束时间 | Thursday, June 29, 2023, 9:24:58 |
| 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 | 30.6 | 50.8 |
| 2 | 测试阶段 | #Action | 51.1 | 114.7 |
| 3 | 停止阶段 | #Cleanup | 132.0 | 132.1 |

## 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 |
| 51.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 54.4 | 0.38652 | -0.2 | 0.4 | Passed |
| 57.6 | 0.386004 | -0.2 | 0.4 | Passed |
| 60.7 | -0.00381356 | -0.2 | 0.4 | Passed |
| 63.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 66.9 | -0.00358803 | -0.2 | 0.4 | Passed |
| 70.2 | -0.0590047 | -0.2 | 0.4 | Passed |
| 73.5 | -0.0831045 | -0.2 | 0.4 | Passed |
| 76.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 79.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 83.1 | -0.00358803 | -0.2 | 0.4 | Passed |
| 86.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 89.9 | -0.003878 | -0.2 | 0.4 | Passed |
| 93.2 | -0.00362025 | -0.2 | 0.4 | Passed |
| 96.6 | -0.00345915 | -0.2 | 0.4 | Passed |
| 100.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 103.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 106.3 | -0.003878 | -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 |
| 52.1 | 20.9956 | 21.0616 | -0.314474 | 10 | Passed |
| 55.4 | 79.0523 | 78.5114 | 0.684218 | 10 | Passed |
| 58.6 | 139.006 | 138.8 | 0.148238 | 10 | Passed |
| 61.7 | 139.006 | 138.991 | 0.0114164 | 10 | Passed |
| 64.7 | 139.006 | 138.989 | 0.0126313 | 10 | Passed |
| 67.9 | 128.192 | 128.748 | -0.434113 | 10 | Passed |
| 71.2 | 65.5816 | 66.2056 | -0.951385 | 10 | Passed |
| 74.4 | 20.9766 | 21.0463 | -0.33217 | 10 | Passed |
| 77.6 | 20.9766 | 21.0425 | -0.314362 | 10 | Passed |
| 80.8 | 20.9766 | 21.0403 | -0.303572 | 10 | Passed |
| 84.2 | 20.9766 | 20.7858 | 0.909707 | 10 | Passed |
| 87.7 | 79.982 | 76.3403 | 4.55315 | 10 | Passed |
| 91.0 | 139.367 | 141.101 | -1.24401 | 10 | Passed |
| 94.3 | 139.367 | 141.783 | -1.73353 | 10 | Passed |
| 97.5 | 139.367 | 141.787 | -1.73621 | 10 | Passed |
| 100.9 | 116.6 | 121.874 | -4.52392 | 10 | Passed |
| 104.1 | 55.1276 | 57.6542 | -4.58318 | 10 | Passed |
| 107.3 | 15.8539 | 20.9107 | -31.8957 | 10 | Failed |

## 测试数据记录

