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, November 18, 2022, 11:40:33 |
| 测试结束时间 | Friday, November 18, 2022, 11:42:14 |
| 操作员 | administrator |
| UUT编号 |  |
| 测试结果 | Passed |

# 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 | 61734.1 | 61749.2 |
| 2 | 测试阶段 | #Action | 61749.5 | 61813.1 |
| 3 | 停止阶段 | #Cleanup | 61813.6 | 61828.8 |

## 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 |
| 61749.5 | -0.00410353 | -0.2 | 0.4 | Passed |
| 61752.0 | 0.389291 | -0.2 | 0.4 | Passed |
| 61754.2 | 0.389162 | -0.2 | 0.4 | Passed |
| 61756.4 | 0.388936 | -0.2 | 0.4 | Passed |
| 61758.6 | 0.388711 | -0.2 | 0.4 | Passed |
| 61760.9 | 0.388228 | -0.2 | 0.4 | Passed |
| 61763.1 | 0.388131 | -0.2 | 0.4 | Passed |
| 61765.4 | 0.00321017 | -0.2 | 0.4 | Passed |
| 61768.0 | -0.0645141 | -0.2 | 0.4 | Passed |
| 61770.2 | -0.0845866 | -0.2 | 0.4 | Passed |
| 61772.7 | -0.0657385 | -0.2 | 0.4 | Passed |
| 61775.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 61777.5 | -0.00394244 | -0.2 | 0.4 | Passed |
| 61780.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 61782.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 61785.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 61788.2 | -0.00416797 | -0.2 | 0.4 | Passed |
| 61790.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 61793.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 61796.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 61799.3 | -0.00410353 | -0.2 | 0.4 | Passed |
| 61802.5 | -0.00410353 | -0.2 | 0.4 | Passed |
| 61805.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 61808.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 61811.5 | -0.00420019 | -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 |
| 61750.2 | 21.504 | 21.5687 | 0 | 0 | Passed |
| 61752.5 | 35.824 | 35.6656 | 0 | 0 | Passed |
| 61754.7 | 53.104 | 52.9329 | 0 | 0 | Passed |
| 61756.9 | 70.864 | 70.6606 | 0 | 0 | Passed |
| 61759.1 | 88.624 | 88.3961 | 0 | 0 | Passed |
| 61761.3 | 106.392 | 106.136 | 0 | 0 | Passed |
| 61763.6 | 124.632 | 124.379 | 0 | 0 | Passed |
| 61766.1 | 135.992 | 136.222 | 0 | 0 | Passed |
| 61768.6 | 113.992 | 114.456 | 0 | 0 | Passed |
| 61770.9 | 76.552 | 77.0566 | 0 | 0 | Passed |
| 61773.3 | 37.192 | 37.7589 | 0 | 0 | Passed |
| 61775.8 | 21.512 | 21.5776 | 0 | 0 | Passed |
| 61778.2 | 21.512 | 21.5759 | 0 | 0 | Passed |
| 61780.8 | 21.512 | 21.5772 | 0 | 0 | Passed |
| 61783.6 | 26.232 | 29.336 | 0 | 0 | Passed |
| 61786.4 | 48.312 | 79.7094 | 0 | 0 | Passed |
| 61789.0 | 69.432 | 132.978 | 0 | 0 | Passed |
| 61791.7 | 72.072 | 141.971 | 0 | 0 | Passed |
| 61794.5 | 72.072 | 141.98 | 0 | 0 | Passed |
| 61797.2 | 72.072 | 141.985 | 0 | 0 | Passed |
| 61800.5 | 44.152 | 95.713 | 0 | 0 | Passed |
| 61803.5 | -3.864 | 41.3834 | 0 | 0 | Passed |
| 61806.4 | -22.424 | 20.7895 | 0 | 0 | Passed |
| 61809.5 | -22.424 | 20.7857 | 0 | 0 | Passed |
| 61812.3 | -22.424 | 20.7823 | 0 | 0 | Passed |

## 测试数据记录

