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 |
| 激励文件 | /TestStand/LandingGearAction\_TestStand\_v1.0.0.0.csv |
| 测试序列 | /TestStand/Demo-VeriStandStep-TS2017.seq\_v1.0.0.0.seq |
| 报告模板版本 | /TestStand/Word Report/LandingGearTestReportTemplate\_v1.0.0.0.dotx |

|  |  |
| --- | --- |
| 测试开始时间 | Wednesday, November 2, 2022, 1:20:25 |
| 测试结束时间 | Wednesday, November 2, 2022, 1:22:17 |
| 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 | 51519.8 | 51535.0 |
| 2 | 测试阶段 | #Action | 51535.1 | 51598.6 |
| 3 | 停止阶段 | #Cleanup | 51598.7 | 51614.0 |

## 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 |
| 51535.1 | -0.00397466 | -0.2 | 0.4 | Passed |
| 51537.4 | 0.389613 | -0.2 | 0.4 | Passed |
| 51539.6 | 0.389001 | -0.2 | 0.4 | Passed |
| 51541.7 | 0.389033 | -0.2 | 0.4 | Passed |
| 51543.9 | 0.388518 | -0.2 | 0.4 | Passed |
| 51546.1 | 0.388292 | -0.2 | 0.4 | Passed |
| 51548.3 | 0.387938 | -0.2 | 0.4 | Passed |
| 51550.5 | 0.38768 | -0.2 | 0.4 | Passed |
| 51552.9 | -0.0725367 | -0.2 | 0.4 | Passed |
| 51555.2 | -0.0798826 | -0.2 | 0.4 | Passed |
| 51557.6 | -0.0549129 | -0.2 | 0.4 | Passed |
| 51560.0 | -0.00381356 | -0.2 | 0.4 | Passed |
| 51562.3 | -0.00391022 | -0.2 | 0.4 | Passed |
| 51564.5 | -0.00461904 | -0.2 | 0.4 | Passed |
| 51566.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 51569.0 | -0.003878 | -0.2 | 0.4 | Passed |
| 51571.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 51573.6 | -0.00371691 | -0.2 | 0.4 | Passed |
| 51576.0 | -0.00378134 | -0.2 | 0.4 | Passed |
| 51578.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 51580.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 51583.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 51585.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 51588.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 51590.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 51593.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 51596.3 | -0.00397466 | -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 |
| 51535.7 | 21.52 | 21.5853 | 0 | 0 | Passed |
| 51538.0 | 35.36 | 35.206 | 0 | 0 | Passed |
| 51540.1 | 52.16 | 51.9912 | 0 | 0 | Passed |
| 51542.2 | 69.44 | 69.243 | 0 | 0 | Passed |
| 51544.4 | 86.72 | 86.4895 | 0 | 0 | Passed |
| 51546.6 | 104.48 | 104.225 | 0 | 0 | Passed |
| 51548.8 | 122.24 | 121.983 | 0 | 0 | Passed |
| 51551.1 | 138.08 | 138.067 | 0 | 0 | Passed |
| 51553.5 | 120.472 | 120.69 | 0 | 0 | Passed |
| 51555.9 | 83.912 | 84.4022 | 0 | 0 | Passed |
| 51558.3 | 45.512 | 46.0739 | 0 | 0 | Passed |
| 51560.7 | 21.512 | 21.5786 | 0 | 0 | Passed |
| 51562.8 | 21.512 | 21.5804 | 0 | 0 | Passed |
| 51565.1 | 21.512 | 21.5764 | 0 | 0 | Passed |
| 51567.3 | 21.512 | 21.5759 | 0 | 0 | Passed |
| 51569.6 | 30.712 | 39.0547 | 0 | 0 | Passed |
| 51572.0 | 49.432 | 81.0383 | 0 | 0 | Passed |
| 51574.3 | 68.16 | 127.986 | 0 | 0 | Passed |
| 51576.7 | 73.28 | 141.806 | 0 | 0 | Passed |
| 51579.1 | 73.28 | 141.818 | 0 | 0 | Passed |
| 51581.5 | 73.28 | 141.822 | 0 | 0 | Passed |
| 51583.8 | 71.52 | 141.775 | 0 | 0 | Passed |
| 51586.5 | 36.32 | 82.9181 | 0 | 0 | Passed |
| 51589.1 | -5.92 | 33.4702 | 0 | 0 | Passed |
| 51591.6 | -16.96 | 20.6526 | 0 | 0 | Passed |
| 51594.2 | -16.96 | 20.6477 | 0 | 0 | Passed |
| 51597.0 | -16.96 | 20.6442 | 0 | 0 | Passed |

## 测试数据记录

