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 | Monday, June 26, 2023, 10:35:08 |
| 测试结束时间 | Monday, June 26, 2023, 10:37:06 |
| 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 | 717.8 | 738.4 |
| 2 | 测试阶段 | #Action | 738.6 | 787.3 |
| 3 | 停止阶段 | #Cleanup | 787.4 | 802.6 |

## 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 |
| 738.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 741.5 | -0.00391022 | -0.2 | 0.4 | Passed |
| 744.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 746.8 | -0.00374913 | -0.2 | 0.4 | Passed |
| 749.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 751.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 754.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 756.8 | -0.00384578 | -0.2 | 0.4 | Passed |
| 759.5 | -0.00400688 | -0.2 | 0.4 | Passed |
| 761.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 764.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 767.1 | -0.00391022 | -0.2 | 0.4 | Passed |
| 770.2 | -0.00368469 | -0.2 | 0.4 | Passed |
| 773.0 | -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 |
| 739.3 | 14.3361 | 14.3821 | -0.320444 | 10 | Passed |
| 742.3 | 14.3361 | 14.3798 | -0.305025 | 10 | Passed |
| 744.9 | 14.3361 | 14.378 | -0.292445 | 10 | Passed |
| 747.5 | 14.3361 | 14.3837 | -0.331966 | 10 | Passed |
| 749.9 | 14.3361 | 14.3811 | -0.314022 | 10 | Passed |
| 752.6 | 14.3361 | 14.3805 | -0.309306 | 10 | Passed |
| 755.0 | 14.3361 | 14.3813 | -0.31544 | 10 | Passed |
| 757.5 | 14.3361 | 14.3802 | -0.307307 | 10 | Passed |
| 760.1 | 14.3361 | 14.3772 | -0.28674 | 10 | Passed |
| 762.5 | 14.3361 | 14.3792 | -0.300657 | 10 | Passed |
| 765.2 | 14.3361 | 14.3763 | -0.280645 | 10 | Passed |
| 768.1 | 14.3361 | 14.3808 | -0.31151 | 10 | Passed |
| 771.0 | 14.3361 | 14.3822 | -0.321193 | 10 | Passed |
| 773.7 | 13.9567 | 20.8898 | -49.676 | 10 | Failed |

## 测试数据记录

