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 7, 2023, 18:11:30 |
| 测试结束时间 | Wednesday, June 7, 2023, 18:13:10 |
| 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 | 422.0 | 442.5 |
| 2 | 测试阶段 | #Action | 442.7 | 506.3 |
| 3 | 停止阶段 | #Cleanup | 506.4 | 506.4 |

## 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 |
| 442.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 446.0 | 0.384748 | -0.2 | 0.4 | Passed |
| 448.9 | 0.384039 | -0.2 | 0.4 | Passed |
| 451.9 | -0.00384578 | -0.2 | 0.4 | Passed |
| 455.0 | -0.00416797 | -0.2 | 0.4 | Passed |
| 458.0 | -0.00384578 | -0.2 | 0.4 | Passed |
| 461.0 | -0.0428308 | -0.2 | 0.4 | Passed |
| 464.2 | -0.0474381 | -0.2 | 0.4 | Passed |
| 467.1 | -0.00432907 | -0.2 | 0.4 | Passed |
| 470.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 473.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 476.8 | -0.00378134 | -0.2 | 0.4 | Passed |
| 480.3 | -0.00394244 | -0.2 | 0.4 | Passed |
| 483.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 486.8 | -0.00420019 | -0.2 | 0.4 | Passed |
| 490.4 | -0.0043935 | -0.2 | 0.4 | Passed |
| 493.7 | -0.00429685 | -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 |
| 443.8 | 14.7156 | 14.7584 | -0.290802 | 10 | Passed |
| 446.8 | 70.3059 | 69.7797 | 0.748421 | 10 | Passed |
| 449.8 | 127.224 | 126.637 | 0.46144 | 10 | Passed |
| 452.8 | 138.987 | 138.977 | 0.00729428 | 10 | Passed |
| 455.8 | 138.987 | 138.979 | 0.0061648 | 10 | Passed |
| 458.8 | 138.987 | 138.978 | 0.00659607 | 10 | Passed |
| 461.9 | 82.6382 | 83.2238 | -0.708658 | 10 | Passed |
| 465.1 | 23.4431 | 24.0866 | -2.74506 | 10 | Passed |
| 468.0 | 20.9766 | 21.0428 | -0.31553 | 10 | Passed |
| 471.4 | 20.9766 | 21.0416 | -0.310086 | 10 | Passed |
| 474.7 | 20.9766 | 21.0388 | -0.296707 | 10 | Passed |
| 477.8 | 51.3331 | 52.3531 | -1.98702 | 10 | Passed |
| 481.2 | 116.22 | 123.355 | -6.13927 | 10 | Passed |
| 484.4 | 132.916 | 141.731 | -6.6318 | 10 | Passed |
| 488.0 | 132.916 | 141.739 | -6.63794 | 10 | Passed |
| 491.4 | 130.26 | 141.735 | -8.80958 | 10 | Passed |
| 494.9 | 63.0962 | 70.9964 | -12.5208 | 10 | Failed |

## 测试数据记录

