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, February 10, 2023, 15:29:49 |
| 测试结束时间 | Friday, February 10, 2023, 15:31:22 |
| 操作员 | administrator |
| UUT编号 | 1 |
| 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 | 13128.7 | 13144.0 |
| 2 | 测试阶段 | #Action | 13144.2 | 13207.7 |
| 3 | 停止阶段 | #Cleanup | 13207.8 | 13207.9 |

## 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 |
| 13144.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 13146.5 | 0.39087 | -0.2 | 0.4 | Passed |
| 13148.8 | 0.39029 | -0.2 | 0.4 | Passed |
| 13151.2 | 0.39 | -0.2 | 0.4 | Passed |
| 13153.4 | -0.00416797 | -0.2 | 0.4 | Passed |
| 13155.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 13158.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 13160.3 | -0.00432907 | -0.2 | 0.4 | Passed |
| 13162.7 | -0.00565005 | -0.2 | 0.4 | Passed |
| 13165.4 | -0.00529564 | -0.2 | 0.4 | Passed |
| 13168.0 | -0.00355581 | -0.2 | 0.4 | Passed |
| 13170.5 | -0.00426463 | -0.2 | 0.4 | Passed |
| 13173.2 | -0.00416797 | -0.2 | 0.4 | Passed |
| 13175.9 | -0.0043935 | -0.2 | 0.4 | Passed |
| 13178.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 13181.1 | -0.00407132 | -0.2 | 0.4 | Passed |
| 13183.9 | -0.00410353 | -0.2 | 0.4 | Passed |
| 13186.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 13189.6 | -0.00394244 | -0.2 | 0.4 | Passed |
| 13192.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 13195.1 | -0.00426463 | -0.2 | 0.4 | Passed |
| 13198.1 | -0.00413575 | -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 |
| 13145.0 | 20.9956 | 21.0541 | -0.278948 | 10 | Passed |
| 13147.2 | 55.5261 | 55.0236 | 0.904968 | 10 | Passed |
| 13149.5 | 98.784 | 98.2064 | 0.584749 | 10 | Passed |
| 13151.8 | 139.006 | 139 | 0.00475393 | 10 | Passed |
| 13154.0 | 139.006 | 139.003 | 0.00228015 | 10 | Passed |
| 13156.3 | 139.006 | 139.002 | 0.00330913 | 10 | Passed |
| 13158.5 | 139.006 | 139.005 | 0.00110841 | 10 | Passed |
| 13160.8 | 131.607 | 132.168 | -0.425912 | 10 | Passed |
| 13163.4 | 82.6572 | 83.2398 | -0.704929 | 10 | Passed |
| 13166.1 | 31.4306 | 32.0814 | -2.0706 | 10 | Passed |
| 13168.7 | 20.9956 | 21.056 | -0.287803 | 10 | Passed |
| 13171.4 | 20.9956 | 21.0542 | -0.279401 | 10 | Passed |
| 13174.1 | 20.9956 | 21.0512 | -0.264974 | 10 | Passed |
| 13176.6 | 20.9956 | 20.9034 | 0.439198 | 10 | Passed |
| 13179.2 | 51.5418 | 47.8886 | 7.08788 | 10 | Passed |
| 13181.9 | 102.787 | 99.6774 | 3.02553 | 10 | Passed |
| 13184.6 | 140.923 | 141.709 | -0.55831 | 10 | Passed |
| 13187.5 | 140.923 | 141.734 | -0.57545 | 10 | Passed |
| 13190.4 | 140.923 | 141.744 | -0.582647 | 10 | Passed |
| 13193.1 | 132.575 | 138.479 | -4.45337 | 10 | Passed |
| 13196.0 | 79.0713 | 79.9842 | -1.15452 | 10 | Passed |
| 13199.0 | 21.0145 | 25.4908 | -21.301 | 10 | Failed |

## 测试数据记录

