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 | Tuesday, June 20, 2023, 11:05:24 |
| 测试结束时间 | Tuesday, June 20, 2023, 11:07:45 |
| 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 | 109.7 | 131.0 |
| 2 | 测试阶段 | #Action | 131.3 | 180.1 |
| 3 | 停止阶段 | #Cleanup | 202.3 | 217.5 |

## 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 |
| 131.3 | 0.390902 | -0.2 | 0.4 | Passed |
| 133.7 | 0.387551 | -0.2 | 0.4 | Passed |
| 136.0 | 0.38768 | -0.2 | 0.4 | Passed |
| 138.3 | -0.00378134 | -0.2 | 0.4 | Passed |
| 140.7 | -0.00397466 | -0.2 | 0.4 | Passed |
| 143.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 145.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 149.0 | -0.0696047 | -0.2 | 0.4 | Passed |
| 151.8 | -0.0832656 | -0.2 | 0.4 | Passed |
| 155.0 | -0.00378134 | -0.2 | 0.4 | Passed |
| 157.9 | -0.00378134 | -0.2 | 0.4 | Passed |
| 161.0 | -0.00384578 | -0.2 | 0.4 | Passed |
| 164.3 | -0.00368469 | -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 |
| 131.9 | 37.4829 | 37.0055 | 1.27382 | 10 | Passed |
| 134.1 | 78.4642 | 77.9299 | 0.680983 | 10 | Passed |
| 136.6 | 125.137 | 124.547 | 0.471946 | 10 | Passed |
| 138.9 | 138.987 | 138.972 | 0.0110712 | 10 | Passed |
| 141.2 | 138.987 | 138.972 | 0.0109135 | 10 | Passed |
| 143.7 | 138.987 | 138.971 | 0.0118834 | 10 | Passed |
| 146.6 | 138.987 | 138.974 | 0.00973254 | 10 | Passed |
| 149.8 | 100.283 | 100.835 | -0.550086 | 10 | Passed |
| 152.9 | 41.0878 | 41.7477 | -1.6061 | 10 | Passed |
| 155.9 | 20.9766 | 21.0448 | -0.324923 | 10 | Passed |
| 158.9 | 20.9766 | 21.0441 | -0.322 | 10 | Passed |
| 162.1 | 20.9766 | 21.0451 | -0.326653 | 10 | Passed |
| 165.2 | 20.9766 | 142.286 | -578.307 | 10 | Failed |

## 测试数据记录

