飞机起落架测试报告

|  |  |
| --- | --- |
| 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, 1:09:26 |
| 测试结束时间 | Wednesday, November 2, 2022, 1:11:02 |
| 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 | 50860.4 | 50875.5 |
| 2 | 测试阶段 | #Action | 50875.6 | 50924.1 |
| 3 | 停止阶段 | #Cleanup | 50924.2 | 50939.3 |

## 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 |
| 50875.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 50877.8 | 0.389549 | -0.2 | 0.4 | Passed |
| 50879.9 | 0.389065 | -0.2 | 0.4 | Passed |
| 50882.0 | 0.388872 | -0.2 | 0.4 | Passed |
| 50884.3 | 0.388711 | -0.2 | 0.4 | Passed |
| 50886.3 | 0.388324 | -0.2 | 0.4 | Passed |
| 50888.7 | 0.388163 | -0.2 | 0.4 | Passed |
| 50890.9 | 0.387905 | -0.2 | 0.4 | Passed |
| 50893.3 | -0.103886 | -0.2 | 0.4 | Passed |
| 50895.4 | -0.0483402 | -0.2 | 0.4 | Passed |
| 50897.8 | -0.108719 | -0.2 | 0.4 | Passed |
| 50900.3 | -0.0833945 | -0.2 | 0.4 | Passed |
| 50902.6 | -0.0040391 | -0.2 | 0.4 | Passed |
| 50905.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 50907.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 50910.3 | -0.00416797 | -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 |
| 50876.2 | 21.432 | 21.4964 | -0.300603 | 10 | Passed |
| 50878.3 | 33.992 | 33.833 | 0.467721 | 10 | Passed |
| 50880.4 | 50.792 | 50.6241 | 0.3305 | 10 | Passed |
| 50882.5 | 67.592 | 67.3966 | 0.289091 | 10 | Passed |
| 50884.7 | 85.36 | 85.1291 | 0.270518 | 10 | Passed |
| 50886.9 | 102.64 | 102.38 | 0.252839 | 10 | Passed |
| 50889.2 | 121.36 | 121.103 | 0.211907 | 10 | Passed |
| 50891.4 | 138.08 | 138.066 | 0.00993798 | 10 | Passed |
| 50893.7 | 122.8 | 123.027 | -0.184926 | 10 | Passed |
| 50896.0 | 90.48 | 90.9609 | -0.531449 | 10 | Passed |
| 50898.3 | 53.04 | 53.596 | -1.0482 | 10 | Passed |
| 50900.7 | 21.52 | 21.5835 | -0.294858 | 10 | Passed |
| 50903.3 | 21.52 | 21.585 | -0.302097 | 10 | Passed |
| 50905.9 | 21.52 | 21.5837 | -0.29621 | 10 | Passed |
| 50908.5 | 21.52 | 20.791 | 3.38732 | 10 | Passed |
| 50911.0 | 37.36 | 53.9475 | -44.3991 | 10 | Failed |

## 测试数据记录

