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, June 30, 2023, 10:37:15 |
| 测试结束时间 | Friday, June 30, 2023, 10:38:56 |
| 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 | 38.7 | 59.0 |
| 2 | 测试阶段 | #Action | 59.3 | 122.9 |
| 3 | 停止阶段 | #Cleanup | 122.9 | 123.0 |

## 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 |
| 59.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 61.6 | 0.387422 | -0.2 | 0.4 | Passed |
| 63.8 | 0.386907 | -0.2 | 0.4 | Passed |
| 65.9 | 0.386681 | -0.2 | 0.4 | Passed |
| 68.1 | -0.00378134 | -0.2 | 0.4 | Passed |
| 70.5 | -0.00381356 | -0.2 | 0.4 | Passed |
| 72.9 | -0.00378134 | -0.2 | 0.4 | Passed |
| 75.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 77.8 | -0.0108373 | -0.2 | 0.4 | Passed |
| 80.2 | -0.0733421 | -0.2 | 0.4 | Passed |
| 82.5 | -0.00394244 | -0.2 | 0.4 | Passed |
| 85.0 | -0.00407132 | -0.2 | 0.4 | Passed |
| 87.5 | -0.00378134 | -0.2 | 0.4 | Passed |
| 90.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 92.6 | -0.00429685 | -0.2 | 0.4 | Passed |
| 95.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 97.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 100.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 102.5 | -0.00432907 | -0.2 | 0.4 | Passed |
| 105.1 | -0.00391022 | -0.2 | 0.4 | Passed |
| 107.5 | -0.00407132 | -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 |
| 60.0 | 10.4978 | 10.5314 | -0.320454 | 10 | Passed |
| 62.0 | 24.8222 | 24.5772 | 0.987369 | 10 | Passed |
| 64.3 | 45.8915 | 45.6096 | 0.614461 | 10 | Passed |
| 66.5 | 66.9514 | 66.6595 | 0.435954 | 10 | Passed |
| 68.8 | 69.5127 | 69.5068 | 0.00842114 | 10 | Passed |
| 71.2 | 69.5127 | 69.5068 | 0.00838706 | 10 | Passed |
| 73.4 | 69.5127 | 69.5081 | 0.00658198 | 10 | Passed |
| 76.0 | 65.9078 | 66.1865 | -0.422815 | 10 | Passed |
| 78.3 | 43.7097 | 43.999 | -0.662035 | 10 | Passed |
| 80.7 | 20.9423 | 21.2739 | -1.58356 | 10 | Passed |
| 83.3 | 10.4124 | 10.4437 | -0.300135 | 10 | Passed |
| 85.7 | 10.4124 | 10.4451 | -0.314132 | 10 | Passed |
| 88.3 | 10.4124 | 10.4436 | -0.299825 | 10 | Passed |
| 90.7 | 10.4124 | 10.4424 | -0.288141 | 10 | Passed |
| 93.4 | 15.9145 | 15.5478 | 2.30461 | 10 | Passed |
| 95.8 | 39.2511 | 40.5144 | -3.21854 | 10 | Passed |
| 98.2 | 62.0184 | 64.9547 | -4.7346 | 10 | Passed |
| 100.8 | 66.6668 | 70.7665 | -6.14954 | 10 | Passed |
| 103.1 | 66.6668 | 70.7693 | -6.15373 | 10 | Passed |
| 105.9 | 66.6668 | 70.7696 | -6.1542 | 10 | Passed |
| 108.3 | 62.4927 | 69.0034 | -10.4183 | 10 | Failed |

## 测试数据记录

