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 |
| 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, July 7, 2023, 9:28:30 |
| 测试结束时间 | Friday, July 7, 2023, 9:30:21 |
| 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 | 571.2 | 591.9 |
| 2 | 测试阶段 | #Action | 592.1 | 655.6 |
| 3 | 停止阶段 | #Cleanup | 655.6 | 655.7 |

## 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 |
| 592.1 | -0.003878 | -0.2 | 0.4 | Passed |
| 594.6 | 0.385811 | -0.2 | 0.4 | Passed |
| 597.0 | 0.385328 | -0.2 | 0.4 | Passed |
| 599.4 | 0.384845 | -0.2 | 0.4 | Passed |
| 601.9 | -0.003878 | -0.2 | 0.4 | Passed |
| 604.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 606.8 | -0.00432907 | -0.2 | 0.4 | Passed |
| 609.2 | -0.0707002 | -0.2 | 0.4 | Passed |
| 611.6 | -0.0525609 | -0.2 | 0.4 | Passed |
| 614.0 | -0.0627421 | -0.2 | 0.4 | Passed |
| 616.4 | -0.00426463 | -0.2 | 0.4 | Passed |
| 618.6 | -0.00442572 | -0.2 | 0.4 | Passed |
| 621.2 | -0.00394244 | -0.2 | 0.4 | Passed |
| 623.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 626.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 629.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 631.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 634.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 636.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 639.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 641.8 | -0.00420019 | -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 |
| 592.9 | 10.4978 | 10.5297 | -0.3043 | 10 | Passed |
| 595.2 | 28.8065 | 28.5555 | 0.87132 | 10 | Passed |
| 597.6 | 51.5739 | 51.2798 | 0.570306 | 10 | Passed |
| 600.1 | 69.5032 | 69.4971 | 0.00872285 | 10 | Passed |
| 602.5 | 69.5032 | 69.4969 | 0.00901885 | 10 | Passed |
| 605.0 | 69.5032 | 69.4974 | 0.00834884 | 10 | Passed |
| 607.4 | 69.5032 | 69.4977 | 0.00784856 | 10 | Passed |
| 609.8 | 55.7479 | 56.0233 | -0.493961 | 10 | Passed |
| 612.1 | 33.5497 | 33.8628 | -0.933232 | 10 | Passed |
| 614.6 | 10.4883 | 10.5206 | -0.307678 | 10 | Passed |
| 617.0 | 10.4883 | 10.5215 | -0.316606 | 10 | Passed |
| 619.4 | 10.4883 | 10.5196 | -0.298394 | 10 | Passed |
| 622.1 | 10.4883 | 10.5203 | -0.305259 | 10 | Passed |
| 624.4 | 10.4883 | 10.5219 | -0.320844 | 10 | Passed |
| 627.1 | 25.4768 | 25.9485 | -1.8514 | 10 | Passed |
| 629.8 | 51.0901 | 53.3201 | -4.36478 | 10 | Passed |
| 632.3 | 66.4581 | 71.1518 | -7.06277 | 10 | Passed |
| 634.8 | 66.4581 | 71.1577 | -7.07153 | 10 | Passed |
| 637.6 | 66.4581 | 71.1595 | -7.07435 | 10 | Passed |
| 640.0 | 66.4581 | 71.16 | -7.07506 | 10 | Passed |
| 642.5 | 47.4853 | 52.3762 | -10.3 | 10 | Failed |

## 测试数据记录

