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 | Wednesday, December 21, 2022, 10:58:51 |
| 测试结束时间 | Wednesday, December 21, 2022, 11:00:39 |
| 操作员 | administrator |
| UUT编号 |  |
| 测试结果 | Passed |

# 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 | 679.4 | 694.6 |
| 2 | 测试阶段 | #Action | 694.7 | 758.3 |
| 3 | 停止阶段 | #Cleanup | 759.0 | 774.2 |

## 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 |
| 694.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 698.3 | 0.389388 | -0.2 | 0.4 | Passed |
| 701.9 | 0.389162 | -0.2 | 0.4 | Passed |
| 705.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 708.8 | -0.003878 | -0.2 | 0.4 | Passed |
| 712.3 | -0.00345915 | -0.2 | 0.4 | Passed |
| 715.9 | -0.115742 | -0.2 | 0.4 | Passed |
| 719.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 722.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 725.6 | -0.00378134 | -0.2 | 0.4 | Passed |
| 728.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 732.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 735.7 | -0.00384578 | -0.2 | 0.4 | Passed |
| 739.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 742.6 | -0.00436129 | -0.2 | 0.4 | Passed |
| 746.2 | -0.00429685 | -0.2 | 0.4 | Passed |
| 749.9 | -0.003878 | -0.2 | 0.4 | Passed |
| 753.1 | -0.00416797 | -0.2 | 0.4 | Passed |
| 756.4 | -0.00436129 | -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 |
| 695.9 | 18.1496 | 18.1978 | -0.265205 | 10 | Passed |
| 699.4 | 83.6058 | 83.0532 | 0.661001 | 10 | Passed |
| 703.0 | 139.006 | 139.002 | 0.0031986 | 10 | Passed |
| 706.5 | 139.006 | 139.005 | 0.00103751 | 10 | Passed |
| 709.7 | 139.006 | 139.004 | 0.00184485 | 10 | Passed |
| 713.3 | 95.1792 | 95.7382 | -0.587273 | 10 | Passed |
| 716.8 | 29.1539 | 29.7964 | -2.20389 | 10 | Passed |
| 720.2 | 20.9956 | 21.0522 | -0.269743 | 10 | Passed |
| 723.3 | 20.9956 | 21.0577 | -0.29591 | 10 | Passed |
| 726.7 | 20.9956 | 21.0538 | -0.277272 | 10 | Passed |
| 730.1 | 57.2526 | 53.8542 | 5.93574 | 10 | Passed |
| 733.4 | 121.001 | 117.374 | 2.99799 | 10 | Passed |
| 737.0 | 143.958 | 141.04 | 2.02738 | 10 | Passed |
| 740.3 | 143.958 | 141.053 | 2.01825 | 10 | Passed |
| 743.8 | 134.472 | 136.747 | -1.69186 | 10 | Passed |
| 747.5 | 63.8931 | 62.1123 | 2.78709 | 10 | Passed |
| 751.1 | 20.0469 | 21.0228 | -4.8679 | 10 | Passed |
| 754.0 | 20.0469 | 21.0176 | -4.84203 | 10 | Passed |
| 757.7 | 20.0469 | 21.0143 | -4.82562 | 10 | Passed |

## 测试数据记录

