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 |

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| --- | --- |
| 测试开始时间 | Wednesday, June 7, 2023, 14:04:08 |
| 测试结束时间 | Wednesday, June 7, 2023, 14:06:00 |
| 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 | 50.7 | 71.4 |
| 2 | 测试阶段 | #Action | 71.8 | 135.4 |
| 3 | 停止阶段 | #Cleanup | 135.7 | 135.7 |

## 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 |
| 71.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 74.5 | 0.38507 | -0.2 | 0.4 | Passed |
| 77.0 | 0.384619 | -0.2 | 0.4 | Passed |
| 79.5 | -0.00613333 | -0.2 | 0.4 | Passed |
| 82.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 84.9 | -0.00378134 | -0.2 | 0.4 | Passed |
| 87.4 | -0.00416797 | -0.2 | 0.4 | Passed |
| 89.9 | -0.0608412 | -0.2 | 0.4 | Passed |
| 92.6 | -0.0691537 | -0.2 | 0.4 | Passed |
| 95.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 97.9 | -0.00400688 | -0.2 | 0.4 | Passed |
| 100.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 103.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 105.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 108.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 110.7 | -0.00381356 | -0.2 | 0.4 | Passed |
| 113.1 | -0.00397466 | -0.2 | 0.4 | Passed |
| 115.6 | -0.00436129 | -0.2 | 0.4 | Passed |
| 118.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 120.8 | -0.00397466 | -0.2 | 0.4 | Passed |
| 123.4 | -0.00465126 | -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 |
| 72.7 | 20.9956 | 21.0577 | -0.295731 | 10 | Passed |
| 75.2 | 61.7871 | 61.2769 | 0.825718 | 10 | Passed |
| 77.8 | 110.737 | 110.149 | 0.53083 | 10 | Passed |
| 80.3 | 139.006 | 138.993 | 0.00962185 | 10 | Passed |
| 82.9 | 139.006 | 138.994 | 0.00855234 | 10 | Passed |
| 85.5 | 139.006 | 138.996 | 0.00769345 | 10 | Passed |
| 88.0 | 139.006 | 138.999 | 0.00506129 | 10 | Passed |
| 90.5 | 93.263 | 93.8289 | -0.606783 | 10 | Passed |
| 93.3 | 40.898 | 41.5581 | -1.61393 | 10 | Passed |
| 96.0 | 20.9766 | 21.0411 | -0.307451 | 10 | Passed |
| 98.7 | 20.9766 | 21.042 | -0.311977 | 10 | Passed |
| 101.2 | 20.9766 | 21.0447 | -0.32466 | 10 | Passed |
| 103.7 | 20.9766 | 21.0462 | -0.33159 | 10 | Passed |
| 106.3 | 39.0008 | 38.3379 | 1.69949 | 10 | Passed |
| 108.8 | 86.8122 | 87.9129 | -1.26792 | 10 | Passed |
| 111.4 | 135.591 | 139.841 | -3.13438 | 10 | Passed |
| 113.8 | 135.591 | 142.15 | -4.83699 | 10 | Passed |
| 116.3 | 135.591 | 142.157 | -4.84215 | 10 | Passed |
| 119.0 | 135.591 | 142.159 | -4.84406 | 10 | Passed |
| 121.5 | 114.721 | 124.452 | -8.48234 | 10 | Passed |
| 124.2 | 63.4946 | 69.9736 | -10.2039 | 10 | Failed |

## 测试数据记录

