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, 9:51:06 |
| 测试结束时间 | Friday, June 30, 2023, 9:52:49 |
| 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 | 46.6 | 67.2 |
| 2 | 测试阶段 | #Action | 67.5 | 131.0 |
| 3 | 停止阶段 | #Cleanup | 131.2 | 131.2 |

## 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 |
| 67.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 69.8 | 0.38681 | -0.2 | 0.4 | Passed |
| 72.0 | 0.386359 | -0.2 | 0.4 | Passed |
| 74.3 | 0.386069 | -0.2 | 0.4 | Passed |
| 76.8 | -0.0043935 | -0.2 | 0.4 | Passed |
| 79.1 | -0.00445794 | -0.2 | 0.4 | Passed |
| 81.4 | -0.003878 | -0.2 | 0.4 | Passed |
| 83.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 86.0 | -0.0391578 | -0.2 | 0.4 | Passed |
| 88.4 | -0.142967 | -0.2 | 0.4 | Passed |
| 90.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 93.0 | -0.00384578 | -0.2 | 0.4 | Passed |
| 95.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 98.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 100.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 103.1 | -0.00400688 | -0.2 | 0.4 | Passed |
| 105.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 108.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 110.8 | -0.00400688 | -0.2 | 0.4 | Passed |
| 113.2 | -0.00371691 | -0.2 | 0.4 | Passed |
| 115.9 | -0.00442572 | -0.2 | 0.4 | Passed |
| 118.5 | -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 |
| 68.1 | 10.4978 | 10.5326 | -0.331642 | 10 | Passed |
| 70.4 | 26.3401 | 26.0937 | 0.935354 | 10 | Passed |
| 72.6 | 47.3999 | 47.1131 | 0.604957 | 10 | Passed |
| 74.9 | 69.5032 | 69.3062 | 0.283466 | 10 | Passed |
| 77.3 | 69.5032 | 69.4963 | 0.00988938 | 10 | Passed |
| 79.6 | 69.5032 | 69.4966 | 0.00948591 | 10 | Passed |
| 82.0 | 69.5032 | 69.4985 | 0.00678328 | 10 | Passed |
| 84.2 | 64.8549 | 65.1331 | -0.429002 | 10 | Passed |
| 86.7 | 41.5088 | 41.8003 | -0.702295 | 10 | Passed |
| 88.9 | 20.449 | 20.7799 | -1.61799 | 10 | Passed |
| 91.4 | 10.4883 | 10.5224 | -0.325592 | 10 | Passed |
| 93.8 | 10.4883 | 10.5227 | -0.328039 | 10 | Passed |
| 96.2 | 10.4883 | 10.521 | -0.312112 | 10 | Passed |
| 98.7 | 10.4883 | 10.5213 | -0.315107 | 10 | Passed |
| 101.3 | 14.852 | 14.3561 | 3.33946 | 10 | Passed |
| 103.9 | 39.327 | 40.6572 | -3.38262 | 10 | Passed |
| 106.4 | 62.6635 | 64.836 | -3.46697 | 10 | Passed |
| 109.0 | 66.7521 | 70.689 | -5.89767 | 10 | Passed |
| 111.5 | 66.7521 | 70.6918 | -5.90194 | 10 | Passed |
| 114.0 | 66.7521 | 70.6921 | -5.90237 | 10 | Passed |
| 116.6 | 60.3014 | 66.3243 | -9.98803 | 10 | Passed |
| 119.3 | 34.6881 | 38.5914 | -11.2526 | 10 | Failed |

## 测试数据记录

