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 | Friday, July 7, 2023, 10:11:52 |
| 测试结束时间 | Friday, July 7, 2023, 10:13:35 |
| 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 | 28.4 | 49.0 |
| 2 | 测试阶段 | #Action | 49.1 | 112.7 |
| 3 | 停止阶段 | #Cleanup | 112.8 | 112.9 |

## 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 |
| 49.2 | -0.00429685 | -0.2 | 0.4 | Passed |
| 51.4 | 0.384845 | -0.2 | 0.4 | Passed |
| 53.5 | 0.384426 | -0.2 | 0.4 | Passed |
| 55.8 | 0.384007 | -0.2 | 0.4 | Passed |
| 58.1 | -0.00391022 | -0.2 | 0.4 | Passed |
| 60.5 | -0.00391022 | -0.2 | 0.4 | Passed |
| 62.9 | -0.00391022 | -0.2 | 0.4 | Passed |
| 65.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 67.6 | -0.0576193 | -0.2 | 0.4 | Passed |
| 70.0 | -0.0543007 | -0.2 | 0.4 | Passed |
| 72.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 75.0 | -0.00407132 | -0.2 | 0.4 | Passed |
| 77.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 80.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 82.7 | -0.00365247 | -0.2 | 0.4 | Passed |
| 85.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 87.5 | -0.0043935 | -0.2 | 0.4 | Passed |
| 89.9 | -0.00413575 | -0.2 | 0.4 | Passed |
| 92.3 | -0.00426463 | -0.2 | 0.4 | Passed |
| 94.7 | -0.00391022 | -0.2 | 0.4 | Passed |
| 97.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 99.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 102.3 | -0.00442572 | -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 |
| 49.7 | 10.4883 | 10.5208 | -0.309962 | 10 | Passed |
| 51.8 | 25.0025 | 24.7585 | 0.975954 | 10 | Passed |
| 54.1 | 46.0623 | 45.7788 | 0.615488 | 10 | Passed |
| 56.3 | 67.6913 | 67.399 | 0.431797 | 10 | Passed |
| 58.8 | 69.4937 | 69.4878 | 0.00843115 | 10 | Passed |
| 61.1 | 69.4937 | 69.4879 | 0.00837567 | 10 | Passed |
| 63.5 | 69.4937 | 69.4876 | 0.00879917 | 10 | Passed |
| 65.8 | 65.9837 | 66.2618 | -0.421383 | 10 | Passed |
| 68.1 | 43.7856 | 44.073 | -0.656481 | 10 | Passed |
| 70.7 | 19.3106 | 19.6397 | -1.70419 | 10 | Passed |
| 73.2 | 10.4883 | 10.5216 | -0.317802 | 10 | Passed |
| 75.8 | 10.4883 | 10.5207 | -0.30856 | 10 | Passed |
| 78.4 | 10.4883 | 10.5209 | -0.310468 | 10 | Passed |
| 80.9 | 10.4883 | 10.5218 | -0.318975 | 10 | Passed |
| 83.4 | 18.2671 | 16.8888 | 7.54531 | 10 | Passed |
| 85.7 | 40.4653 | 39.671 | 1.96307 | 10 | Passed |
| 88.1 | 63.2327 | 64.7614 | -2.41761 | 10 | Passed |
| 90.6 | 67.6913 | 70.8324 | -4.64036 | 10 | Passed |
| 92.9 | 67.6913 | 70.8354 | -4.64476 | 10 | Passed |
| 95.3 | 67.6913 | 70.836 | -4.64572 | 10 | Passed |
| 97.8 | 66.3632 | 70.8177 | -6.71232 | 10 | Passed |
| 100.4 | 41.3191 | 43.1628 | -4.46217 | 10 | Passed |
| 103.0 | 17.4134 | 19.6114 | -12.6228 | 10 | Failed |

## 测试数据记录

