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 | Monday, July 3, 2023, 10:11:30 |
| 测试结束时间 | Monday, July 3, 2023, 10:13:38 |
| 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 | 71.9 | 93.0 |
| 2 | 测试阶段 | #Action | 93.3 | 156.9 |
| 3 | 停止阶段 | #Cleanup | 157.0 | 157.1 |

## 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 |
| 93.4 | -0.00368469 | -0.2 | 0.4 | Passed |
| 95.5 | 0.387229 | -0.2 | 0.4 | Passed |
| 97.6 | 0.386681 | -0.2 | 0.4 | Passed |
| 99.7 | 0.386069 | -0.2 | 0.4 | Passed |
| 101.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 104.0 | -0.00423241 | -0.2 | 0.4 | Passed |
| 106.1 | -0.00407132 | -0.2 | 0.4 | Passed |
| 108.2 | -0.00432907 | -0.2 | 0.4 | Passed |
| 110.2 | -0.112714 | -0.2 | 0.4 | Passed |
| 112.3 | -0.0785938 | -0.2 | 0.4 | Passed |
| 114.4 | -0.0523676 | -0.2 | 0.4 | Passed |
| 116.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 118.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 120.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 123.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 125.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 127.4 | -0.0045546 | -0.2 | 0.4 | Passed |
| 129.6 | -0.00416797 | -0.2 | 0.4 | Passed |
| 131.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 134.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 136.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 138.7 | -0.00394244 | -0.2 | 0.4 | Passed |
| 140.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 143.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 145.5 | -0.0040391 | -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 |
| 93.8 | 10.4883 | 10.5192 | -0.294413 | 10 | Passed |
| 95.9 | 24.1487 | 23.9052 | 1.00844 | 10 | Passed |
| 98.0 | 44.0702 | 43.7893 | 0.637243 | 10 | Passed |
| 100.1 | 63.9916 | 63.6995 | 0.456454 | 10 | Passed |
| 102.4 | 69.4937 | 69.4891 | 0.00669311 | 10 | Passed |
| 104.5 | 69.4937 | 69.4882 | 0.00794832 | 10 | Passed |
| 106.5 | 69.4937 | 69.4876 | 0.00876439 | 10 | Passed |
| 108.6 | 69.4937 | 69.4877 | 0.00861934 | 10 | Passed |
| 110.7 | 58.4895 | 58.7666 | -0.473854 | 10 | Passed |
| 112.8 | 38.568 | 38.8661 | -0.772843 | 10 | Passed |
| 114.8 | 19.2158 | 19.5466 | -1.72134 | 10 | Passed |
| 117.0 | 10.4883 | 10.521 | -0.311882 | 10 | Passed |
| 119.2 | 10.4883 | 10.5182 | -0.284745 | 10 | Passed |
| 121.4 | 10.4883 | 10.5189 | -0.292235 | 10 | Passed |
| 123.6 | 10.4883 | 10.5208 | -0.309781 | 10 | Passed |
| 125.8 | 10.4883 | 10.4405 | 0.456018 | 10 | Passed |
| 127.9 | 20.6387 | 20.6579 | -0.0927395 | 10 | Passed |
| 130.1 | 41.6986 | 42.6936 | -2.38633 | 10 | Passed |
| 132.4 | 63.3275 | 65.0132 | -2.66174 | 10 | Passed |
| 134.6 | 67.217 | 71.0645 | -5.72398 | 10 | Passed |
| 136.9 | 67.217 | 71.0684 | -5.72987 | 10 | Passed |
| 139.3 | 67.217 | 71.069 | -5.7308 | 10 | Passed |
| 141.5 | 67.217 | 71.071 | -5.73373 | 10 | Passed |
| 143.8 | 48.9082 | 53.6539 | -9.70317 | 10 | Passed |
| 146.2 | 26.71 | 31.3313 | -17.3014 | 10 | Failed |

## 测试数据记录

