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 | Thursday, June 29, 2023, 15:59:13 |
| 测试结束时间 | Thursday, June 29, 2023, 16:02:18 |
| 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 | 17.9 | 38.5 |
| 2 | 测试阶段 | #Action | 117.738.6 | 181.2102.2 |
| 3 | 停止阶段 | #Cleanup | 102.2 | 117.4 |

## 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 |
| 117.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 119.3 | -0.00426463 | -0.2 | 0.4 | Passed |
| 121.0 | -0.00413575 | -0.2 | 0.4 | Passed |
| 122.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 124.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 126.0 | -0.00407132 | -0.2 | 0.4 | Passed |
| 128.0 | -0.00381356 | -0.2 | 0.4 | Passed |
| 129.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 131.4 | -0.00400688 | -0.2 | 0.4 | Passed |
| 133.1 | -0.00400688 | -0.2 | 0.4 | Passed |
| 134.9 | -0.0614855 | -0.2 | 0.4 | Passed |
| 136.8 | -0.065223 | -0.2 | 0.4 | Passed |
| 138.7 | -0.0723756 | -0.2 | 0.4 | Passed |
| 140.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 142.5 | -0.00429685 | -0.2 | 0.4 | Passed |
| 144.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 146.3 | -0.00381356 | -0.2 | 0.4 | Passed |
| 148.3 | -0.00423241 | -0.2 | 0.4 | Passed |
| 150.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 152.1 | -0.00362025 | -0.2 | 0.4 | Passed |
| 154.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 156.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 158.2 | -0.00384578 | -0.2 | 0.4 | Passed |
| 160.3 | -0.00423241 | -0.2 | 0.4 | Passed |
| 162.5 | -0.00400688 | -0.2 | 0.4 | Passed |
| 164.7 | -0.00394244 | -0.2 | 0.4 | Passed |
| 166.8 | -0.00371691 | -0.2 | 0.4 | Passed |
| 169.8 | -0.00400688 | -0.2 | 0.4 | Passed |
| 171.9 | -0.00445794 | -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 |
| 117.9 | 138.437 | 138.422 | 0.0107958 | 10 | Passed |
| 119.6 | 138.437 | 138.422 | 0.0110673 | 10 | Passed |
| 121.2 | 138.437 | 138.421 | 0.0120396 | 10 | Passed |
| 122.9 | 138.437 | 138.421 | 0.0114238 | 10 | Passed |
| 124.6 | 138.437 | 138.422 | 0.0106639 | 10 | Passed |
| 126.4 | 138.437 | 138.422 | 0.0108388 | 10 | Passed |
| 128.3 | 138.437 | 138.421 | 0.0120195 | 10 | Passed |
| 130.0 | 138.437 | 138.42 | 0.0121102 | 10 | Passed |
| 131.8 | 138.437 | 138.421 | 0.0118365 | 10 | Passed |
| 133.5 | 138.437 | 138.423 | 0.0100059 | 10 | Passed |
| 135.3 | 110.547 | 111.097 | -0.496946 | 10 | Passed |
| 137.2 | 75.2578 | 75.8608 | -0.801323 | 10 | Passed |
| 139.1 | 38.83 | 39.4917 | -1.70404 | 10 | Passed |
| 141.1 | 20.9956 | 21.0655 | -0.332976 | 10 | Passed |
| 142.9 | 20.9956 | 21.0637 | -0.324428 | 10 | Passed |
| 144.9 | 20.9956 | 21.0639 | -0.325346 | 10 | Passed |
| 146.8 | 20.9956 | 21.0612 | -0.312406 | 10 | Passed |
| 148.7 | 20.9956 | 21.0631 | -0.321693 | 10 | Passed |
| 150.7 | 20.9956 | 20.491 | 2.40305 | 10 | Passed |
| 152.6 | 49.265 | 47.3663 | 3.8541 | 10 | Passed |
| 154.6 | 86.8502 | 86.237 | 0.705973 | 10 | Passed |
| 156.7 | 126.693 | 130.898 | -3.31901 | 10 | Passed |
| 158.7 | 133.903 | 141.966 | -6.02194 | 10 | Passed |
| 160.8 | 133.903 | 141.97 | -6.02487 | 10 | Passed |
| 163.0 | 133.903 | 141.972 | -6.02639 | 10 | Passed |
| 165.2 | 133.903 | 141.974 | -6.02793 | 10 | Passed |
| 167.8 | 102.598 | 109.802 | -7.02228 | 10 | Passed |
| 170.3 | 54.7861 | 59.4175 | -8.45364 | 10 | Passed |
| 172.5 | 13.9946 | 21.6175 | -54.47 | 10 | Failed |

## 测试数据记录

