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 15, 2023, 17:17:59 |
| 测试结束时间 | Thursday, June 15, 2023, 17:19:31 |
| 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 | 62.6 | 82.9 |
| 2 | 测试阶段 | #Action | 83.0 | 146.6 |
| 3 | 停止阶段 | #Cleanup | 146.7 | 146.8 |

## 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 |
| 83.1 | -0.00400688 | -0.2 | 0.4 | Passed |
| 85.4 | 0.383749 | -0.2 | 0.4 | Passed |
| 87.7 | 0.383491 | -0.2 | 0.4 | Passed |
| 89.9 | 0.383137 | -0.2 | 0.4 | Passed |
| 92.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 94.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 96.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 99.2 | -0.00420019 | -0.2 | 0.4 | Passed |
| 101.5 | -0.0770151 | -0.2 | 0.4 | Passed |
| 103.9 | -0.0829112 | -0.2 | 0.4 | Passed |
| 106.3 | -0.00410353 | -0.2 | 0.4 | Passed |
| 108.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 111.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 113.6 | -0.00394244 | -0.2 | 0.4 | Passed |
| 115.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 118.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 120.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 123.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 125.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 128.0 | -0.00429685 | -0.2 | 0.4 | Passed |
| 130.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 132.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 135.3 | -0.00394244 | -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 |
| 83.6 | 20.9766 | 21.0399 | -0.301843 | 10 | Passed |
| 86.0 | 53.9893 | 53.4935 | 0.918349 | 10 | Passed |
| 88.3 | 97.2473 | 96.6703 | 0.593234 | 10 | Passed |
| 90.5 | 138.987 | 138.784 | 0.146276 | 10 | Passed |
| 92.8 | 138.987 | 138.975 | 0.00911874 | 10 | Passed |
| 95.0 | 138.987 | 138.976 | 0.00811471 | 10 | Passed |
| 97.4 | 138.987 | 138.975 | 0.00913605 | 10 | Passed |
| 99.8 | 129.311 | 129.864 | -0.427535 | 10 | Passed |
| 102.2 | 82.6382 | 83.2238 | -0.708623 | 10 | Passed |
| 104.6 | 37.1035 | 37.7619 | -1.77451 | 10 | Passed |
| 107.0 | 20.9766 | 21.0428 | -0.315398 | 10 | Passed |
| 109.5 | 20.9766 | 21.0467 | -0.334104 | 10 | Passed |
| 111.9 | 20.9766 | 21.0426 | -0.314477 | 10 | Passed |
| 114.2 | 20.9766 | 21.0439 | -0.321088 | 10 | Passed |
| 116.5 | 21.9252 | 21.0406 | 4.03486 | 10 | Passed |
| 118.9 | 66.3406 | 68.365 | -3.05164 | 10 | Passed |
| 121.3 | 111.875 | 117.134 | -4.70065 | 10 | Passed |
| 123.8 | 134.263 | 142.17 | -5.88893 | 10 | Passed |
| 126.2 | 134.263 | 142.179 | -5.89554 | 10 | Passed |
| 128.7 | 134.263 | 142.183 | -5.89843 | 10 | Passed |
| 131.2 | 134.263 | 142.185 | -5.90007 | 10 | Passed |
| 133.6 | 96.3176 | 103.822 | -7.79174 | 10 | Passed |
| 136.1 | 47.3678 | 53.3456 | -12.6201 | 10 | Failed |

## 测试数据记录

