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, 10:30:56 |
| 测试结束时间 | Friday, June 30, 2023, 10:32:42 |
| 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 | 1190.7 | 1211.3 |
| 2 | 测试阶段 | #Action | 1211.4 | 1274.9 |
| 3 | 停止阶段 | #Cleanup | 1275.0 | 1275.0 |

## 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 |
| 1211.4 | -0.00384578 | -0.2 | 0.4 | Passed |
| 1214.0 | 0.386971 | -0.2 | 0.4 | Passed |
| 1216.5 | 0.386778 | -0.2 | 0.4 | Passed |
| 1219.2 | 0.386327 | -0.2 | 0.4 | Passed |
| 1222.0 | -0.00391022 | -0.2 | 0.4 | Passed |
| 1224.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 1227.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1229.8 | -0.0443128 | -0.2 | 0.4 | Passed |
| 1232.3 | -0.0156701 | -0.2 | 0.4 | Passed |
| 1234.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 1237.3 | -0.00371691 | -0.2 | 0.4 | Passed |
| 1239.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 1242.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1245.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 1248.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1250.6 | -0.00429685 | -0.2 | 0.4 | Passed |
| 1253.2 | -0.00400688 | -0.2 | 0.4 | Passed |
| 1256.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1258.5 | -0.00410353 | -0.2 | 0.4 | Passed |
| 1261.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 1263.8 | -0.00410353 | -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 |
| 1212.1 | 5.94431 | 5.96282 | -0.311353 | 10 | Passed |
| 1214.8 | 26.5298 | 26.2822 | 0.93316 | 10 | Passed |
| 1217.2 | 49.8663 | 49.5764 | 0.581343 | 10 | Passed |
| 1219.9 | 69.5127 | 69.5063 | 0.00917478 | 10 | Passed |
| 1222.7 | 69.5127 | 69.508 | 0.00678934 | 10 | Passed |
| 1225.3 | 69.5127 | 69.507 | 0.00810094 | 10 | Passed |
| 1228.1 | 65.3387 | 65.6166 | -0.425364 | 10 | Passed |
| 1230.4 | 43.1405 | 43.4303 | -0.671819 | 10 | Passed |
| 1232.9 | 19.2348 | 19.5634 | -1.70866 | 10 | Passed |
| 1235.4 | 10.4124 | 10.4449 | -0.312051 | 10 | Passed |
| 1238.1 | 10.4124 | 10.4434 | -0.29791 | 10 | Passed |
| 1240.5 | 10.4124 | 10.4429 | -0.292938 | 10 | Passed |
| 1243.1 | 10.4124 | 10.4437 | -0.300134 | 10 | Passed |
| 1245.9 | 20.3731 | 20.6562 | -1.38957 | 10 | Passed |
| 1248.8 | 47.694 | 49.7994 | -4.41449 | 10 | Passed |
| 1251.5 | 66.5719 | 70.7924 | -6.33982 | 10 | Passed |
| 1254.2 | 66.5719 | 70.7988 | -6.34944 | 10 | Passed |
| 1256.8 | 66.5719 | 70.8013 | -6.3532 | 10 | Passed |
| 1259.4 | 66.5719 | 70.8014 | -6.35333 | 10 | Passed |
| 1262.1 | 45.8821 | 50.3019 | -9.63298 | 10 | Passed |
| 1264.7 | 21.4071 | 25.3239 | -18.2964 | 10 | Failed |

## 测试数据记录

