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, 9:09:26 |
| 测试结束时间 | Thursday, June 29, 2023, 9:20:27 |
| 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 | 1515.3 | 1535.5 |
| 2 | 测试阶段 | #Action | 1535.9 | 1599.4 |
| 3 | 停止阶段 | #Cleanup | 2159.1 | 2159.2 |

## 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 |
| 1535.9 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1538.5 | 0.386552 | -0.2 | 0.4 | Passed |
| 1541.1 | 0.386101 | -0.2 | 0.4 | Passed |
| 1543.7 | -0.00449016 | -0.2 | 0.4 | Passed |
| 1546.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 1549.0 | -0.003878 | -0.2 | 0.4 | Passed |
| 1551.7 | -0.00381356 | -0.2 | 0.4 | Passed |
| 1554.0 | -0.0712801 | -0.2 | 0.4 | Passed |
| 1556.7 | -0.057136 | -0.2 | 0.4 | Passed |
| 1559.3 | -0.00374913 | -0.2 | 0.4 | Passed |
| 1561.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 1564.8 | -0.00407132 | -0.2 | 0.4 | Passed |
| 1567.7 | -0.00436129 | -0.2 | 0.4 | Passed |
| 1571.2 | -0.00381356 | -0.2 | 0.4 | Passed |
| 1574.6 | -0.00400688 | -0.2 | 0.4 | Passed |
| 1578.0 | -0.00365247 | -0.2 | 0.4 | Passed |
| 1581.2 | -0.00374913 | -0.2 | 0.4 | Passed |
| 1584.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 1587.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1591.1 | -0.00365247 | -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 |
| 1536.6 | 20.9766 | 21.0418 | -0.310936 | 10 | Passed |
| 1539.2 | 62.9065 | 62.3952 | 0.812706 | 10 | Passed |
| 1541.8 | 111.856 | 111.267 | 0.526763 | 10 | Passed |
| 1544.5 | 138.987 | 138.978 | 0.00701553 | 10 | Passed |
| 1547.0 | 138.987 | 138.976 | 0.00832736 | 10 | Passed |
| 1549.7 | 138.987 | 138.976 | 0.00820763 | 10 | Passed |
| 1552.3 | 135.193 | 135.749 | -0.411447 | 10 | Passed |
| 1554.8 | 88.5198 | 89.0945 | -0.649228 | 10 | Passed |
| 1557.4 | 38.4316 | 39.0897 | -1.71254 | 10 | Passed |
| 1559.9 | 20.9766 | 21.0454 | -0.327999 | 10 | Passed |
| 1562.7 | 20.9766 | 21.0444 | -0.32347 | 10 | Passed |
| 1565.6 | 20.9766 | 21.0449 | -0.325722 | 10 | Passed |
| 1569.0 | 20.9766 | 20.5341 | 2.10941 | 10 | Passed |
| 1572.3 | 77.5155 | 72.9674 | 5.86739 | 10 | Passed |
| 1575.7 | 141.074 | 138.639 | 1.72642 | 10 | Passed |
| 1579.0 | 141.074 | 141.86 | -0.55651 | 10 | Passed |
| 1582.2 | 141.074 | 141.865 | -0.560075 | 10 | Passed |
| 1585.5 | 118.876 | 122.575 | -3.1114 | 10 | Passed |
| 1588.9 | 56.266 | 57.9107 | -2.92302 | 10 | Passed |
| 1592.2 | 15.835 | 20.8005 | -31.358 | 10 | Failed |

## 测试数据记录

