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, 16:39:21 |
| 测试结束时间 | Thursday, June 29, 2023, 16:41:13 |
| 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 | 111.0 | 131.9 |
| 2 | 测试阶段 | #Action | 132.3 | 196.2 |
| 3 | 停止阶段 | #Cleanup | 196.4 | 196.4 |

## 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 |
| 132.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 134.8 | 0.386907 | -0.2 | 0.4 | Passed |
| 137.3 | 0.386294 | -0.2 | 0.4 | Passed |
| 139.8 | 0.219367 | -0.2 | 0.4 | Passed |
| 142.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 145.0 | -0.00410353 | -0.2 | 0.4 | Passed |
| 147.7 | -0.00407132 | -0.2 | 0.4 | Passed |
| 150.3 | -0.0306198 | -0.2 | 0.4 | Passed |
| 152.9 | -0.0597135 | -0.2 | 0.4 | Passed |
| 155.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 157.8 | -0.00420019 | -0.2 | 0.4 | Passed |
| 160.6 | -0.00442572 | -0.2 | 0.4 | Passed |
| 163.4 | -0.00400688 | -0.2 | 0.4 | Passed |
| 166.2 | -0.00378134 | -0.2 | 0.4 | Passed |
| 169.2 | -0.00426463 | -0.2 | 0.4 | Passed |
| 171.8 | -0.00423241 | -0.2 | 0.4 | Passed |
| 174.8 | -0.00381356 | -0.2 | 0.4 | Passed |
| 177.7 | -0.00445794 | -0.2 | 0.4 | Passed |
| 180.4 | -0.00426463 | -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 |
| 132.9 | 20.9766 | 21.0484 | -0.342434 | 10 | Passed |
| 135.4 | 56.8352 | 56.3395 | 0.87215 | 10 | Passed |
| 137.9 | 104.647 | 104.058 | 0.562873 | 10 | Passed |
| 140.5 | 139.006 | 138.992 | 0.0104734 | 10 | Passed |
| 143.0 | 139.006 | 138.992 | 0.0106078 | 10 | Passed |
| 145.7 | 139.006 | 138.995 | 0.00788233 | 10 | Passed |
| 148.2 | 139.006 | 138.993 | 0.00937259 | 10 | Passed |
| 151.0 | 94.4203 | 94.9828 | -0.595715 | 10 | Passed |
| 153.6 | 44.3321 | 44.9922 | -1.48901 | 10 | Passed |
| 156.1 | 20.9956 | 21.0681 | -0.34536 | 10 | Passed |
| 158.6 | 20.9956 | 21.0614 | -0.313588 | 10 | Passed |
| 161.4 | 20.9956 | 21.0673 | -0.341624 | 10 | Passed |
| 164.2 | 20.9956 | 21.0631 | -0.321883 | 10 | Passed |
| 167.1 | 44.3321 | 45.0996 | -1.73116 | 10 | Passed |
| 169.8 | 96.697 | 100.967 | -4.41549 | 10 | Passed |
| 172.7 | 132.176 | 141.977 | -7.41494 | 10 | Passed |
| 175.6 | 132.176 | 141.986 | -7.4221 | 10 | Passed |
| 178.5 | 132.176 | 141.988 | -7.42298 | 10 | Passed |
| 181.4 | 124.018 | 138.496 | -11.6742 | 10 | Failed |

## 测试数据记录

