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, 17:29:56 |
| 测试结束时间 | Thursday, June 29, 2023, 17:31:58 |
| 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 | 140.9 | 161.5 |
| 2 | 测试阶段 | #Action | 161.6 | 225.3 |
| 3 | 停止阶段 | #Cleanup | 244.7 | 244.7 |

## 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 |
| 161.7 | -0.00384578 | -0.2 | 0.4 | Passed |
| 164.2 | 0.386681 | -0.2 | 0.4 | Passed |
| 166.8 | 0.386262 | -0.2 | 0.4 | Passed |
| 169.4 | 0.386037 | -0.2 | 0.4 | Passed |
| 172.0 | -0.00410353 | -0.2 | 0.4 | Passed |
| 174.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 177.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 179.5 | -0.0185376 | -0.2 | 0.4 | Passed |
| 182.0 | -0.0723433 | -0.2 | 0.4 | Passed |
| 184.3 | -0.0190209 | -0.2 | 0.4 | Passed |
| 186.9 | -0.00394244 | -0.2 | 0.4 | Passed |
| 189.4 | -0.00442572 | -0.2 | 0.4 | Passed |
| 191.9 | -0.00400688 | -0.2 | 0.4 | Passed |
| 194.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 196.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 199.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 202.1 | -0.003878 | -0.2 | 0.4 | Passed |
| 204.7 | -0.003878 | -0.2 | 0.4 | Passed |
| 207.3 | -0.00384578 | -0.2 | 0.4 | Passed |
| 209.9 | -0.00391022 | -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 |
| 162.5 | 9.80162 | 9.82956 | -0.28514 | 10 | Passed |
| 164.9 | 49.0753 | 48.5883 | 0.992433 | 10 | Passed |
| 167.5 | 96.8868 | 96.3067 | 0.598657 | 10 | Passed |
| 170.2 | 139.006 | 138.993 | 0.00946075 | 10 | Passed |
| 172.7 | 139.006 | 138.991 | 0.0107129 | 10 | Passed |
| 175.3 | 139.006 | 138.991 | 0.01104 | 10 | Passed |
| 177.7 | 139.006 | 138.995 | 0.00786893 | 10 | Passed |
| 180.2 | 96.3176 | 96.8768 | -0.58061 | 10 | Passed |
| 182.6 | 50.7829 | 51.4363 | -1.28681 | 10 | Passed |
| 184.9 | 20.9956 | 21.0623 | -0.318012 | 10 | Passed |
| 187.5 | 20.9956 | 21.0645 | -0.328535 | 10 | Passed |
| 190.1 | 20.9956 | 21.063 | -0.321286 | 10 | Passed |
| 192.6 | 20.9956 | 21.0592 | -0.302972 | 10 | Passed |
| 195.2 | 20.9956 | 21.0511 | -0.264323 | 10 | Passed |
| 197.7 | 67.4979 | 70.5309 | -4.49353 | 10 | Passed |
| 200.3 | 117.586 | 125.545 | -6.76826 | 10 | Passed |
| 202.9 | 132.385 | 141.485 | -6.87365 | 10 | Passed |
| 205.4 | 132.385 | 141.488 | -6.8763 | 10 | Passed |
| 208.1 | 132.385 | 141.49 | -6.87795 | 10 | Passed |
| 210.7 | 126.124 | 140.4 | -11.3194 | 10 | Failed |

## 测试数据记录

