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, 10:14:45 |
| 测试结束时间 | Friday, June 30, 2023, 10:16:56 |
| 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 | 222.4 | 243.3 |
| 2 | 测试阶段 | #Action | 243.5 | 307.1 |
| 3 | 停止阶段 | #Cleanup | 328.9 | 328.9 |

## 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 |
| 243.7 | -0.00381356 | -0.2 | 0.4 | Passed |
| 246.1 | 0.387325 | -0.2 | 0.4 | Passed |
| 248.5 | 0.386456 | -0.2 | 0.4 | Passed |
| 250.8 | 0.386037 | -0.2 | 0.4 | Passed |
| 253.3 | -0.00423241 | -0.2 | 0.4 | Passed |
| 255.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 258.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 260.4 | -0.0663184 | -0.2 | 0.4 | Passed |
| 262.7 | -0.062581 | -0.2 | 0.4 | Passed |
| 265.1 | -0.0634509 | -0.2 | 0.4 | Passed |
| 267.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 270.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 272.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 275.0 | -0.00413575 | -0.2 | 0.4 | Passed |
| 277.6 | -0.00429685 | -0.2 | 0.4 | Passed |
| 280.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 282.4 | -0.00432907 | -0.2 | 0.4 | Passed |
| 284.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 287.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 289.9 | -0.00400688 | -0.2 | 0.4 | Passed |
| 292.3 | -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 |
| 244.3 | 10.4978 | 10.5297 | -0.304208 | 10 | Passed |
| 246.6 | 27.5733 | 27.3247 | 0.901647 | 10 | Passed |
| 249.1 | 50.9098 | 50.6184 | 0.572441 | 10 | Passed |
| 251.5 | 69.5032 | 69.4974 | 0.00834433 | 10 | Passed |
| 253.9 | 69.5032 | 69.4971 | 0.00877916 | 10 | Passed |
| 256.3 | 69.5032 | 69.4986 | 0.00665 | 10 | Passed |
| 258.6 | 69.5032 | 69.4968 | 0.00915332 | 10 | Passed |
| 261.0 | 58.499 | 58.7765 | -0.474364 | 10 | Passed |
| 263.2 | 37.4392 | 37.7398 | -0.803111 | 10 | Passed |
| 265.7 | 13.5239 | 13.8489 | -2.40283 | 10 | Passed |
| 268.3 | 10.4883 | 10.522 | -0.320983 | 10 | Passed |
| 270.7 | 10.4883 | 10.5212 | -0.31413 | 10 | Passed |
| 273.2 | 10.4883 | 10.5202 | -0.303708 | 10 | Passed |
| 275.8 | 10.4883 | 10.5192 | -0.294942 | 10 | Passed |
| 278.2 | 21.6822 | 22.1102 | -1.97394 | 10 | Passed |
| 280.6 | 44.4496 | 46.4839 | -4.5767 | 10 | Passed |
| 283.0 | 66.0786 | 70.2664 | -6.33758 | 10 | Passed |
| 285.4 | 66.0786 | 71.0036 | -7.45328 | 10 | Passed |
| 287.9 | 66.0786 | 71.0066 | -7.45774 | 10 | Passed |
| 290.5 | 66.0786 | 71.0076 | -7.45922 | 10 | Passed |
| 293.0 | 57.9203 | 65.1504 | -12.4829 | 10 | Failed |

## 测试数据记录

