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, 10:20:38 |
| 测试结束时间 | Friday, June 30, 2023, 10:22:20 |
| 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 | 568.8 | 589.3 |
| 2 | 测试阶段 | #Action | 589.6 | 653.2 |
| 3 | 停止阶段 | #Cleanup | 653.3 | 653.4 |

## 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 |
| 589.7 | -0.00423241 | -0.2 | 0.4 | Passed |
| 592.1 | 0.387132 | -0.2 | 0.4 | Passed |
| 594.5 | 0.386649 | -0.2 | 0.4 | Passed |
| 597.0 | 0.386294 | -0.2 | 0.4 | Passed |
| 599.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 601.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 604.3 | -0.00391022 | -0.2 | 0.4 | Passed |
| 606.8 | -0.0952511 | -0.2 | 0.4 | Passed |
| 609.4 | -0.0592302 | -0.2 | 0.4 | Passed |
| 611.8 | -0.0687993 | -0.2 | 0.4 | Passed |
| 614.4 | -0.00400688 | -0.2 | 0.4 | Passed |
| 616.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 619.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 621.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 624.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 627.1 | -0.00391022 | -0.2 | 0.4 | Passed |
| 629.6 | -0.00400688 | -0.2 | 0.4 | Passed |
| 632.0 | -0.00407132 | -0.2 | 0.4 | Passed |
| 634.6 | -0.00416797 | -0.2 | 0.4 | Passed |
| 637.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 639.8 | -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 |
| 590.3 | 4.60673 | 4.61979 | -0.283535 | 10 | Passed |
| 592.7 | 22.2514 | 22.0093 | 1.08817 | 10 | Passed |
| 595.1 | 45.588 | 45.3054 | 0.619918 | 10 | Passed |
| 597.6 | 69.4937 | 69.1949 | 0.42999 | 10 | Passed |
| 600.1 | 69.4937 | 69.4883 | 0.00779736 | 10 | Passed |
| 602.5 | 69.4937 | 69.4872 | 0.00939045 | 10 | Passed |
| 605.0 | 69.4937 | 69.4888 | 0.00699758 | 10 | Passed |
| 607.5 | 54.5052 | 54.7809 | -0.505804 | 10 | Passed |
| 609.9 | 31.7378 | 32.0521 | -0.990298 | 10 | Passed |
| 612.5 | 10.4883 | 10.5225 | -0.325989 | 10 | Passed |
| 615.2 | 10.4883 | 10.5223 | -0.32439 | 10 | Passed |
| 617.6 | 10.4883 | 10.5209 | -0.310733 | 10 | Passed |
| 620.1 | 10.4883 | 10.5196 | -0.298369 | 10 | Passed |
| 622.5 | 10.4883 | 10.4583 | 0.286468 | 10 | Passed |
| 625.1 | 29.556 | 30.7802 | -4.14198 | 10 | Passed |
| 627.7 | 54.0404 | 57.7001 | -6.77223 | 10 | Passed |
| 630.3 | 65.5189 | 71.2152 | -8.6941 | 10 | Passed |
| 632.7 | 65.5189 | 71.2199 | -8.70135 | 10 | Passed |
| 635.4 | 65.5189 | 71.2207 | -8.70257 | 10 | Passed |
| 637.9 | 65.5189 | 71.2221 | -8.70473 | 10 | Passed |
| 640.7 | 41.5183 | 47.1558 | -13.5782 | 10 | Failed |

## 测试数据记录

