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 | Wednesday, June 7, 2023, 13:49:12 |
| 测试结束时间 | Wednesday, June 7, 2023, 13:51:33 |
| 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 | 568.7 | 589.6 |
| 2 | 测试阶段 | #Action | 590.0 | 653.6 |
| 3 | 停止阶段 | #Cleanup | 672.1 | 672.1 |

## 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 |
| 590.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 592.5 | 0.38507 | -0.2 | 0.4 | Passed |
| 594.9 | 0.384748 | -0.2 | 0.4 | Passed |
| 597.4 | 0.384136 | -0.2 | 0.4 | Passed |
| 599.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 602.1 | -0.00378134 | -0.2 | 0.4 | Passed |
| 604.6 | -0.00426463 | -0.2 | 0.4 | Passed |
| 607.2 | -0.0431207 | -0.2 | 0.4 | Passed |
| 609.6 | -0.0852309 | -0.2 | 0.4 | Passed |
| 612.2 | -0.107849 | -0.2 | 0.4 | Passed |
| 614.8 | -0.00394244 | -0.2 | 0.4 | Passed |
| 617.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 619.9 | -0.00429685 | -0.2 | 0.4 | Passed |
| 622.4 | -0.00374913 | -0.2 | 0.4 | Passed |
| 625.0 | -0.00423241 | -0.2 | 0.4 | Passed |
| 627.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 630.2 | -0.003878 | -0.2 | 0.4 | Passed |
| 632.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 635.3 | -0.00394244 | -0.2 | 0.4 | Passed |
| 638.0 | -0.00410353 | -0.2 | 0.4 | Passed |
| 640.7 | -0.00429685 | -0.2 | 0.4 | Passed |
| 643.2 | -0.00400688 | -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 |
| 590.8 | 14.7156 | 14.756 | -0.275024 | 10 | Passed |
| 593.1 | 51.3331 | 50.8429 | 0.954892 | 10 | Passed |
| 595.6 | 96.8678 | 96.2903 | 0.596154 | 10 | Passed |
| 598.0 | 138.987 | 138.977 | 0.00727512 | 10 | Passed |
| 600.4 | 138.987 | 138.975 | 0.00912844 | 10 | Passed |
| 602.8 | 138.987 | 138.975 | 0.00883487 | 10 | Passed |
| 605.4 | 138.987 | 138.978 | 0.00645224 | 10 | Passed |
| 607.9 | 109.2 | 109.753 | -0.506724 | 10 | Passed |
| 610.3 | 62.527 | 63.1539 | -1.00258 | 10 | Passed |
| 613.0 | 20.9766 | 21.0417 | -0.310497 | 10 | Passed |
| 615.5 | 20.9766 | 21.0427 | -0.315064 | 10 | Passed |
| 618.0 | 20.9766 | 21.0398 | -0.301264 | 10 | Passed |
| 620.6 | 20.9766 | 21.0451 | -0.326463 | 10 | Passed |
| 623.1 | 20.9766 | 20.8685 | 0.515156 | 10 | Passed |
| 625.7 | 64.0449 | 61.0546 | 4.66892 | 10 | Passed |
| 628.3 | 113.014 | 111.506 | 1.33376 | 10 | Passed |
| 630.9 | 139.765 | 141.758 | -1.42579 | 10 | Passed |
| 633.5 | 139.765 | 141.774 | -1.43738 | 10 | Passed |
| 636.2 | 139.765 | 141.779 | -1.44107 | 10 | Passed |
| 638.8 | 135.971 | 141.771 | -4.266 | 10 | Passed |
| 641.3 | 87.0209 | 89.3272 | -2.65022 | 10 | Passed |
| 644.0 | 35.7944 | 39.9108 | -11.5002 | 10 | Failed |

## 测试数据记录

