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, November 18, 2022, 12:02:48 |
| 测试结束时间 | Friday, November 18, 2022, 12:04:13 |
| 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 | 63068.9 | 63084.1 |
| 2 | 测试阶段 | #Action | 63084.3 | 63132.9 |
| 3 | 停止阶段 | #Cleanup | 63133.0 | 63148.2 |

## 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 |
| 63084.4 | -0.00416797 | -0.2 | 0.4 | Passed |
| 63086.6 | 0.39 | -0.2 | 0.4 | Passed |
| 63088.7 | 0.38942 | -0.2 | 0.4 | Passed |
| 63090.8 | 0.389033 | -0.2 | 0.4 | Passed |
| 63092.8 | 0.388485 | -0.2 | 0.4 | Passed |
| 63094.9 | 0.388614 | -0.2 | 0.4 | Passed |
| 63097.1 | 0.388034 | -0.2 | 0.4 | Passed |
| 63099.3 | 0.388067 | -0.2 | 0.4 | Passed |
| 63101.5 | -0.0748564 | -0.2 | 0.4 | Passed |
| 63103.6 | -0.0818802 | -0.2 | 0.4 | Passed |
| 63105.7 | -0.0508211 | -0.2 | 0.4 | Passed |
| 63107.9 | -0.0845543 | -0.2 | 0.4 | Passed |
| 63110.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 63112.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 63114.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 63116.9 | -0.0040391 | -0.2 | 0.4 | Passed |
| 63119.2 | -0.00397466 | -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 |
| 63085.0 | 21.504 | 21.5667 | -0.291666 | 10 | Passed |
| 63087.1 | 33.584 | 33.4219 | 0.482736 | 10 | Passed |
| 63089.2 | 50.384 | 50.2162 | 0.333122 | 10 | Passed |
| 63091.2 | 66.704 | 66.5093 | 0.291826 | 10 | Passed |
| 63093.2 | 83.024 | 82.8001 | 0.269715 | 10 | Passed |
| 63095.5 | 100.784 | 100.528 | 0.25442 | 10 | Passed |
| 63097.7 | 118.552 | 118.288 | 0.222372 | 10 | Passed |
| 63099.8 | 135.832 | 135.583 | 0.183227 | 10 | Passed |
| 63101.9 | 127.752 | 127.981 | -0.179494 | 10 | Passed |
| 63104.1 | 102.312 | 102.771 | -0.4489 | 10 | Passed |
| 63106.3 | 67.752 | 68.2773 | -0.77528 | 10 | Passed |
| 63108.4 | 33.192 | 33.7551 | -1.69639 | 10 | Passed |
| 63110.7 | 21.512 | 21.5757 | -0.296197 | 10 | Passed |
| 63113.0 | 21.512 | 21.5807 | -0.319389 | 10 | Passed |
| 63115.2 | 21.512 | 21.5745 | -0.290351 | 10 | Passed |
| 63117.5 | 21.512 | 20.7333 | 3.6198 | 10 | Passed |
| 63119.8 | 36.8 | 53.1369 | -44.3937 | 10 | Failed |

## 测试数据记录

