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, 17:14:45 |
| 测试结束时间 | Thursday, June 29, 2023, 17:16:44 |
| 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 | 27.1 | 47.5 |
| 2 | 测试阶段 | #Action | 47.7 | 111.2 |
| 3 | 停止阶段 | #Cleanup | 111.3 | 111.4 |

## 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 |
| 47.8 | -0.00381356 | -0.2 | 0.4 | Passed |
| 50.4 | 0.386456 | -0.2 | 0.4 | Passed |
| 52.9 | 0.386198 | -0.2 | 0.4 | Passed |
| 55.4 | -0.0057467 | -0.2 | 0.4 | Passed |
| 58.0 | -0.00413575 | -0.2 | 0.4 | Passed |
| 60.6 | -0.00432907 | -0.2 | 0.4 | Passed |
| 63.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 65.9 | -0.116773 | -0.2 | 0.4 | Passed |
| 68.6 | -0.055815 | -0.2 | 0.4 | Passed |
| 71.2 | -0.00413575 | -0.2 | 0.4 | Passed |
| 73.9 | -0.00400688 | -0.2 | 0.4 | Passed |
| 76.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 79.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 81.8 | -0.00368469 | -0.2 | 0.4 | Passed |
| 84.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 87.2 | -0.00381356 | -0.2 | 0.4 | Passed |
| 90.0 | -0.00407132 | -0.2 | 0.4 | Passed |
| 92.7 | -0.00391022 | -0.2 | 0.4 | Passed |
| 95.5 | -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 |
| 48.5 | 20.9766 | 21.0474 | -0.337651 | 10 | Passed |
| 51.0 | 61.1989 | 60.6944 | 0.824354 | 10 | Passed |
| 53.7 | 112.425 | 111.835 | 0.525168 | 10 | Passed |
| 56.1 | 139.006 | 138.992 | 0.0102213 | 10 | Passed |
| 58.8 | 139.006 | 138.993 | 0.00959497 | 10 | Passed |
| 61.4 | 139.006 | 138.991 | 0.0107537 | 10 | Passed |
| 64.1 | 136.16 | 136.713 | -0.406001 | 10 | Passed |
| 66.7 | 87.2106 | 87.7902 | -0.664563 | 10 | Passed |
| 69.3 | 37.1224 | 37.7843 | -1.78279 | 10 | Passed |
| 71.9 | 20.9956 | 21.0584 | -0.299331 | 10 | Passed |
| 74.6 | 20.9956 | 21.0654 | -0.332603 | 10 | Passed |
| 77.2 | 20.9956 | 21.0633 | -0.322629 | 10 | Passed |
| 80.0 | 20.9956 | 21.0657 | -0.333989 | 10 | Passed |
| 82.5 | 46.9883 | 48.0485 | -2.25626 | 10 | Passed |
| 85.3 | 100.492 | 105.755 | -5.2379 | 10 | Passed |
| 88.1 | 132.556 | 141.897 | -7.04748 | 10 | Passed |
| 90.8 | 132.556 | 141.907 | -7.05463 | 10 | Passed |
| 93.5 | 132.556 | 141.911 | -7.05765 | 10 | Passed |
| 96.4 | 128.571 | 141.89 | -10.3593 | 10 | Failed |

## 测试数据记录

