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, 17:22:25 |
| 测试结束时间 | Thursday, June 29, 2023, 17:24:18 |
| 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 | 55.1 | 76.7 |
| 2 | 测试阶段 | #Action | 77.1 | 141.5 |
| 3 | 停止阶段 | #Cleanup | 141.6 | 141.7 |

## 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 |
| 77.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 80.2 | 0.386552 | -0.2 | 0.4 | Passed |
| 83.2 | 0.386294 | -0.2 | 0.4 | Passed |
| 86.0 | -0.003878 | -0.2 | 0.4 | Passed |
| 89.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 92.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 95.2 | -0.0695403 | -0.2 | 0.4 | Passed |
| 97.6 | -0.0648363 | -0.2 | 0.4 | Passed |
| 100.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 103.3 | -0.00410353 | -0.2 | 0.4 | Passed |
| 106.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 108.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 112.1 | -0.003878 | -0.2 | 0.4 | Passed |
| 115.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 118.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 121.0 | -0.00429685 | -0.2 | 0.4 | Passed |
| 123.9 | -0.00381356 | -0.2 | 0.4 | Passed |
| 126.8 | -0.00413575 | -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 |
| 78.0 | 20.9766 | 21.0419 | -0.3112 | 10 | Passed |
| 81.1 | 66.8908 | 66.3734 | 0.773478 | 10 | Passed |
| 83.9 | 120.394 | 119.804 | 0.489779 | 10 | Passed |
| 86.9 | 139.006 | 138.995 | 0.00832758 | 10 | Passed |
| 90.3 | 139.006 | 138.994 | 0.0090572 | 10 | Passed |
| 93.2 | 139.006 | 138.992 | 0.0105616 | 10 | Passed |
| 95.8 | 104.096 | 104.648 | -0.530191 | 10 | Passed |
| 98.5 | 52.8699 | 53.5165 | -1.22306 | 10 | Passed |
| 101.2 | 20.9956 | 21.0637 | -0.32471 | 10 | Passed |
| 104.3 | 20.9956 | 21.0632 | -0.322172 | 10 | Passed |
| 106.9 | 20.9956 | 21.0621 | -0.316846 | 10 | Passed |
| 109.9 | 20.9956 | 21.0606 | -0.309816 | 10 | Passed |
| 113.2 | 54.7672 | 56.8651 | -3.83067 | 10 | Passed |
| 116.0 | 109.409 | 117.053 | -6.9864 | 10 | Passed |
| 118.9 | 131.417 | 141.803 | -7.90279 | 10 | Passed |
| 121.9 | 131.417 | 141.809 | -7.90747 | 10 | Passed |
| 124.8 | 131.417 | 141.811 | -7.90868 | 10 | Passed |
| 127.7 | 108.251 | 121.033 | -11.8072 | 10 | Failed |

## 测试数据记录

