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, 9:41:42 |
| 测试结束时间 | Friday, June 30, 2023, 9:43:42 |
| 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 | 33.8 | 54.9 |
| 2 | 测试阶段 | #Action | 55.1 | 118.8 |
| 3 | 停止阶段 | #Cleanup | 118.9 | 119.0 |

## 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 |
| 55.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 57.5 | 0.386842 | -0.2 | 0.4 | Passed |
| 59.9 | 0.386423 | -0.2 | 0.4 | Passed |
| 62.3 | 0.38623 | -0.2 | 0.4 | Passed |
| 64.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 67.2 | -0.00432907 | -0.2 | 0.4 | Passed |
| 69.7 | -0.00423241 | -0.2 | 0.4 | Passed |
| 72.4 | -0.022275 | -0.2 | 0.4 | Passed |
| 75.0 | -0.0543007 | -0.2 | 0.4 | Passed |
| 77.7 | -0.111522 | -0.2 | 0.4 | Passed |
| 80.3 | -0.00384578 | -0.2 | 0.4 | Passed |
| 83.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 85.9 | -0.00429685 | -0.2 | 0.4 | Passed |
| 88.7 | -0.00429685 | -0.2 | 0.4 | Passed |
| 91.4 | -0.00400688 | -0.2 | 0.4 | Passed |
| 93.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 96.4 | -0.00384578 | -0.2 | 0.4 | Passed |
| 99.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 101.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 104.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 107.6 | -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 |
| 55.9 | 10.4978 | 10.5313 | -0.319087 | 10 | Passed |
| 58.1 | 26.3401 | 26.0917 | 0.942786 | 10 | Passed |
| 60.5 | 49.1074 | 48.8179 | 0.589535 | 10 | Passed |
| 62.9 | 69.5127 | 69.5068 | 0.00847492 | 10 | Passed |
| 65.4 | 69.5127 | 69.5072 | 0.00793274 | 10 | Passed |
| 67.7 | 69.5127 | 69.5085 | 0.00604201 | 10 | Passed |
| 70.4 | 69.5127 | 69.5077 | 0.00723252 | 10 | Passed |
| 73.1 | 54.0498 | 54.3239 | -0.50705 | 10 | Passed |
| 75.7 | 29.0058 | 29.3262 | -1.10483 | 10 | Passed |
| 78.4 | 10.4124 | 10.4465 | -0.327289 | 10 | Passed |
| 81.2 | 10.4124 | 10.4444 | -0.30755 | 10 | Passed |
| 84.0 | 10.4124 | 10.4434 | -0.297259 | 10 | Passed |
| 86.8 | 10.4124 | 10.445 | -0.313165 | 10 | Passed |
| 89.6 | 19.3296 | 19.4006 | -0.367254 | 10 | Passed |
| 92.1 | 42.6662 | 43.8489 | -2.7721 | 10 | Passed |
| 94.7 | 66.9514 | 69.5168 | -3.83185 | 10 | Passed |
| 97.2 | 66.9514 | 70.6877 | -5.58067 | 10 | Passed |
| 99.8 | 66.9514 | 70.6908 | -5.58527 | 10 | Passed |
| 102.6 | 66.9514 | 70.6927 | -5.58811 | 10 | Passed |
| 105.4 | 51.6782 | 56.2458 | -8.83842 | 10 | Passed |
| 108.3 | 24.3574 | 28.0301 | -15.0785 | 10 | Failed |

## 测试数据记录

