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, 17:24:55 |
| 测试结束时间 | Thursday, June 29, 2023, 17:26:37 |
| 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 | 194.5 | 215.0 |
| 2 | 测试阶段 | #Action | 215.2 | 280.2 |
| 3 | 停止阶段 | #Cleanup | 280.3 | 280.5 |

## 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 |
| 215.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 218.3 | 0.386456 | -0.2 | 0.4 | Passed |
| 221.2 | 0.385908 | -0.2 | 0.4 | Passed |
| 224.0 | -0.00429685 | -0.2 | 0.4 | Passed |
| 226.4 | -0.00358803 | -0.2 | 0.4 | Passed |
| 229.0 | -0.00410353 | -0.2 | 0.4 | Passed |
| 231.5 | -0.00442572 | -0.2 | 0.4 | Passed |
| 233.9 | -0.0447961 | -0.2 | 0.4 | Passed |
| 236.6 | -0.0777884 | -0.2 | 0.4 | Passed |
| 239.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 241.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 244.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 247.8-0.00397466 |  | -0.2 | 0.4 | Passed |
| 251.0 | -0.00394244 | -0.2 | 0.4 | Passed |
| 253.3 | -0.0043935 | -0.2 | 0.4 | Passed |
| 255.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 259.9 | -0.00378134 | -0.2 | 0.4 | Passed |
| 265.3 | -0.00407132 | -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 |
| 216.2 | 10.3518 | 10.3843 | -0.313527 | 10 | Passed |
| 219.2 | 62.3373 | 61.831 | 0.812165 | 10 | Passed |
| 222.0 | 115.841 | 115.251 | 0.509081 | 10 | Passed |
| 224.8 | 138.987 | 138.975 | 0.00898872 | 10 | Passed |
| 227.2 | 138.987 | 138.977 | 0.00783505 | 10 | Passed |
| 229.7 | 138.987 | 138.975 | 0.00925962 | 10 | Passed |
| 232.1 | 128.173 | 128.726 | -0.431346 | 10 | Passed |
| 234.6 | 80.3425 | 80.9374 | -0.740454 | 10 | Passed |
| 237.3 | 29.1159 | 29.7712 | -2.25051 | 10 | Passed |
| 239.8 | 20.9576 | 21.0258 | -0.325453 | 10 | Passed |
| 242.7 | 20.9576 | 21.0245 | -0.319031 | 10 | Passed |
| 245.7 | 20.9576 | 21.0261 | -0.326546 | 10 | Passed |
| 249.1 | 26.6495 | 25.3458 | 4.8918 | 10 | Passed |
| 251.6 | 75.5993 | 77.9487 | -3.10768 | 10 | Passed |
| 254.0 | 119.996 | 128.107 | -6.76009 | 10 | Passed |
| 256.4 | 132.347 | 141.68 | -7.0523 | 10 | Passed |
| 261.7 | 132.347 | 141.689 | -7.05893 | 10 | Passed |
| 271.1 | 11.4902 | 20.8904 | -81.8106 | 10 | Failed |

## 测试数据记录

