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 15, 2023, 13:24:44 |
| 测试结束时间 | Thursday, June 15, 2023, 13:26:16 |
| 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 | 198.3 | 218.5 |
| 2 | 测试阶段 | #Action | 218.7 | 282.3 |
| 3 | 停止阶段 | #Cleanup | 282.5 | 282.5 |

## 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 |
| 218.7 | -0.00423241 | -0.2 | 0.4 | Passed |
| 221.2 | 0.383201 | -0.2 | 0.4 | Passed |
| 223.6 | 0.382428 | -0.2 | 0.4 | Passed |
| 226.0 | 0.38217 | -0.2 | 0.4 | Passed |
| 228.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 230.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 233.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 235.7 | -0.0834589 | -0.2 | 0.4 | Passed |
| 238.3 | -0.0485013 | -0.2 | 0.4 | Passed |
| 240.5 | -0.0928024 | -0.2 | 0.4 | Passed |
| 242.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 245.2 | -0.00426463 | -0.2 | 0.4 | Passed |
| 247.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 250.1 | -0.00397466 | -0.2 | 0.4 | Passed |
| 253.3 | -0.00423241 | -0.2 | 0.4 | Passed |
| 256.0 | -0.00426463 | -0.2 | 0.4 | Passed |
| 258.8 | -0.00436129 | -0.2 | 0.4 | Passed |
| 261.6 | -0.00436129 | -0.2 | 0.4 | Passed |
| 264.4 | -0.00442572 | -0.2 | 0.4 | Passed |
| 267.1 | -0.00420019 | -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 |
| 219.4 | 20.9956 | 21.0608 | -0.310518 | 10 | Passed |
| 221.9 | 58.0115 | 57.5092 | 0.86583 | 10 | Passed |
| 224.3 | 104.685 | 104.1 | 0.558437 | 10 | Passed |
| 226.8 | 139.025 | 139.013 | 0.00901793 | 10 | Passed |
| 229.3 | 139.025 | 139.014 | 0.00826922 | 10 | Passed |
| 231.5 | 139.025 | 139.014 | 0.00830231 | 10 | Passed |
| 233.9 | 139.025 | 139.013 | 0.0088355 | 10 | Passed |
| 236.3 | 113.412 | 113.963 | -0.486065 | 10 | Passed |
| 238.8 | 65.6006 | 66.2222 | -0.947478 | 10 | Passed |
| 241.1 | 23.481 | 24.126 | -2.74674 | 10 | Passed |
| 243.5 | 20.8058 | 20.8732 | -0.323811 | 10 | Passed |
| 246.1 | 20.8058 | 20.8721 | -0.318619 | 10 | Passed |
| 248.4 | 20.8058 | 20.8711 | -0.313427 | 10 | Passed |
| 251.3 | 20.8058 | 20.9025 | -0.464783 | 10 | Passed |
| 254.1 | 56.8542 | 58.8291 | -3.47378 | 10 | Passed |
| 256.9 | 109.219 | 114.38 | -4.72555 | 10 | Passed |
| 259.6 | 133.125 | 142.523 | -7.06003 | 10 | Passed |
| 262.4 | 133.125 | 142.53 | -7.06493 | 10 | Passed |
| 265.3 | 133.125 | 142.533 | -7.06728 | 10 | Passed |
| 268.1 | 117.757 | 131.286 | -11.4887 | 10 | Failed |

## 测试数据记录

