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 | Wednesday, June 7, 2023, 18:09:34 |
| 测试结束时间 | Wednesday, June 7, 2023, 18:11:15 |
| 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 | 306.3 | 327.1 |
| 2 | 测试阶段 | #Action | 327.2 | 390.8 |
| 3 | 停止阶段 | #Cleanup | 390.9 | 390.9 |

## 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 |
| 327.3 | -0.00394244 | -0.2 | 0.4 | Passed |
| 330.3 | 0.384716 | -0.2 | 0.4 | Passed |
| 333.4 | 0.384329 | -0.2 | 0.4 | Passed |
| 336.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 339.1 | -0.00426463 | -0.2 | 0.4 | Passed |
| 341.9 | -0.00423241 | -0.2 | 0.4 | Passed |
| 344.8 | -0.0962498 | -0.2 | 0.4 | Passed |
| 347.5 | -0.06097 | -0.2 | 0.4 | Passed |
| 350.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 353.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 355.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 358.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 361.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 364.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 367.3 | -0.00394244 | -0.2 | 0.4 | Passed |
| 370.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 373.0 | -0.00394244 | -0.2 | 0.4 | Passed |
| 375.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 378.8 | -0.0040391 | -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 |
| 328.3 | 20.9956 | 21.0591 | -0.302653 | 10 | Passed |
| 331.2 | 73.5502 | 73.0182 | 0.723366 | 10 | Passed |
| 334.2 | 130.469 | 129.884 | 0.44809 | 10 | Passed |
| 336.9 | 139.006 | 138.996 | 0.00727202 | 10 | Passed |
| 339.8 | 139.006 | 138.999 | 0.00543682 | 10 | Passed |
| 342.7 | 139.006 | 138.994 | 0.00883381 | 10 | Passed |
| 345.5 | 99.9224 | 100.477 | -0.554699 | 10 | Passed |
| 348.3 | 47.5385 | 48.194 | -1.37886 | 10 | Passed |
| 351.0 | 20.9766 | 21.039 | -0.297393 | 10 | Passed |
| 353.8 | 20.9766 | 21.0441 | -0.321874 | 10 | Passed |
| 356.7 | 20.9766 | 21.0406 | -0.304891 | 10 | Passed |
| 359.4 | 20.9766 | 21.0422 | -0.312537 | 10 | Passed |
| 362.2 | 50.3844 | 51.0913 | -1.40303 | 10 | Passed |
| 365.2 | 107.303 | 110.781 | -3.24108 | 10 | Passed |
| 368.2 | 134.434 | 141.945 | -5.58716 | 10 | Passed |
| 371.0 | 134.434 | 141.957 | -5.59578 | 10 | Passed |
| 373.8 | 134.434 | 141.961 | -5.59888 | 10 | Passed |
| 376.7 | 115.651 | 126.581 | -9.45106 | 10 | Passed |
| 379.7 | 58.7325 | 65.2655 | -11.1234 | 10 | Failed |

## 测试数据记录

