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, 13:46:40 |
| 测试结束时间 | Wednesday, June 7, 2023, 13:48:33 |
| 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 | 405.2 | 426.7 |
| 2 | 测试阶段 | #Action | 427.1 | 490.7 |
| 3 | 停止阶段 | #Cleanup | 490.9 | 491.0 |

## 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 |
| 427.1 | -0.00397466 | -0.2 | 0.4 | Passed |
| 429.5 | 0.384909 | -0.2 | 0.4 | Passed |
| 432.0 | 0.384297 | -0.2 | 0.4 | Passed |
| 434.5 | 0.384168 | -0.2 | 0.4 | Passed |
| 437.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 439.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 442.3 | -0.00384578 | -0.2 | 0.4 | Passed |
| 444.7 | -0.138135 | -0.2 | 0.4 | Passed |
| 447.2 | -0.0650619 | -0.2 | 0.4 | Passed |
| 449.6 | -0.0528186 | -0.2 | 0.4 | Passed |
| 452.0 | -0.00436129 | -0.2 | 0.4 | Passed |
| 454.7 | -0.00384578 | -0.2 | 0.4 | Passed |
| 457.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 459.6 | -0.00416797 | -0.2 | 0.4 | Passed |
| 462.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 464.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 467.1 | -0.00397466 | -0.2 | 0.4 | Passed |
| 469.7 | -0.00397466 | -0.2 | 0.4 | Passed |
| 472.3 | -0.00426463 | -0.2 | 0.4 | Passed |
| 474.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 477.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 480.2 | -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 |
| 427.8 | 20.9766 | 21.0445 | -0.323811 | 10 | Passed |
| 430.2 | 56.8352 | 56.3399 | 0.871395 | 10 | Passed |
| 432.7 | 103.508 | 102.923 | 0.565617 | 10 | Passed |
| 435.2 | 139.006 | 138.996 | 0.00733552 | 10 | Passed |
| 437.8 | 139.006 | 138.997 | 0.00701427 | 10 | Passed |
| 440.3 | 139.006 | 138.994 | 0.00863215 | 10 | Passed |
| 442.9 | 139.006 | 138.998 | 0.00590673 | 10 | Passed |
| 445.3 | 102.009 | 102.56 | -0.539259 | 10 | Passed |
| 447.8 | 55.3363 | 55.9792 | -1.1618 | 10 | Passed |
| 450.2 | 20.9956 | 21.057 | -0.292357 | 10 | Passed |
| 452.8 | 20.9956 | 21.0603 | -0.308479 | 10 | Passed |
| 455.3 | 20.9956 | 21.0616 | -0.314273 | 10 | Passed |
| 457.8 | 20.9956 | 21.0608 | -0.310459 | 10 | Passed |
| 460.3 | 20.9956 | 21.0608 | -0.310853 | 10 | Passed |
| 462.7 | 60.6487 | 58.1051 | 4.19398 | 10 | Passed |
| 465.2 | 109.599 | 108.468 | 1.03156 | 10 | Passed |
| 467.9 | 139.006 | 141.712 | -1.9467 | 10 | Passed |
| 470.4 | 139.006 | 141.728 | -1.95818 | 10 | Passed |
| 473.1 | 139.006 | 141.734 | -1.96204 | 10 | Passed |
| 475.6 | 139.006 | 141.735 | -1.96264 | 10 | Passed |
| 478.3 | 88.8992 | 91.253 | -2.6477 | 10 | Passed |
| 480.9 | 39.9494 | 44.4133 | -11.1738 | 10 | Failed |

## 测试数据记录

