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 | Tuesday, July 4, 2023, 15:37:10 |
| 测试结束时间 | Tuesday, July 4, 2023, 15:39:15 |
| 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 | 749.4 | 770.5 |
| 2 | 测试阶段 | #Action | 770.7 | 834.2 |
| 3 | 停止阶段 | #Cleanup | 834.4 | 834.5 |

## 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 |
| 770.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 772.5 | 0.38652 | -0.2 | 0.4 | Passed |
| 774.1 | 0.385843 | -0.2 | 0.4 | Passed |
| 775.9 | 0.385747 | -0.2 | 0.4 | Passed |
| 777.6 | 0.385328 | -0.2 | 0.4 | Passed |
| 779.3 | -0.00410353 | -0.2 | 0.4 | Passed |
| 781.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 782.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 784.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 786.3 | -0.00429685 | -0.2 | 0.4 | Passed |
| 788.0 | -0.05008 | -0.2 | 0.4 | Passed |
| 789.8 | -0.0623877 | -0.2 | 0.4 | Passed |
| 791.6 | -0.0453438 | -0.2 | 0.4 | Passed |
| 793.5 | -0.00381356 | -0.2 | 0.4 | Passed |
| 795.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 797.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 799.1 | -0.00416797 | -0.2 | 0.4 | Passed |
| 801.0 | -0.00394244 | -0.2 | 0.4 | Passed |
| 802.9 | -0.00410353 | -0.2 | 0.4 | Passed |
| 804.7 | -0.0043935 | -0.2 | 0.4 | Passed |
| 806.7 | -0.00394244 | -0.2 | 0.4 | Passed |
| 808.7 | -0.00407132 | -0.2 | 0.4 | Passed |
| 810.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 812.6 | -0.00374913 | -0.2 | 0.4 | Passed |
| 814.7 | -0.00394244 | -0.2 | 0.4 | Passed |
| 816.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 818.8 | -0.00436129 | -0.2 | 0.4 | Passed |
| 820.8 | -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 |
| 771.1 | 10.4788 | 10.5129 | -0.325192 | 10 | Passed |
| 772.7 | 18.4474 | 18.2062 | 1.3075 | 10 | Passed |
| 774.4 | 33.8154 | 33.5563 | 0.766036 | 10 | Passed |
| 776.2 | 51.4601 | 51.1677 | 0.568128 | 10 | Passed |
| 777.9 | 67.3972 | 67.1057 | 0.43253 | 10 | Passed |
| 779.6 | 69.4842 | 69.4781 | 0.00883418 | 10 | Passed |
| 781.4 | 69.4842 | 69.4787 | 0.00793685 | 10 | Passed |
| 783.2 | 69.4842 | 69.4786 | 0.00811352 | 10 | Passed |
| 784.9 | 69.4842 | 69.478 | 0.00892033 | 10 | Passed |
| 786.6 | 69.4842 | 69.4783 | 0.00856394 | 10 | Passed |
| 788.4 | 55.6341 | 55.9108 | -0.497356 | 10 | Passed |
| 790.2 | 38.5586 | 38.8568 | -0.773376 | 10 | Passed |
| 792.1 | 20.9139 | 21.2413 | -1.56593 | 10 | Passed |
| 793.9 | 10.4788 | 10.5146 | -0.341121 | 10 | Passed |
| 795.7 | 10.4788 | 10.5139 | -0.334753 | 10 | Passed |
| 797.6 | 10.4788 | 10.5142 | -0.338151 | 10 | Passed |
| 799.5 | 10.4788 | 10.5124 | -0.320421 | 10 | Passed |
| 801.4 | 10.4788 | 10.5129 | -0.325456 | 10 | Passed |
| 803.3 | 10.4788 | 10.4388 | 0.381941 | 10 | Passed |
| 805.2 | 20.2498 | 20.5149 | -1.3091 | 10 | Passed |
| 807.1 | 38.4637 | 39.9196 | -3.78526 | 10 | Passed |
| 809.1 | 57.2468 | 60.4668 | -5.62492 | 10 | Passed |
| 811.1 | 66.5434 | 70.9606 | -6.63803 | 10 | Passed |
| 813.1 | 66.5434 | 70.9655 | -6.64537 | 10 | Passed |
| 815.2 | 66.5434 | 70.9686 | -6.65007 | 10 | Passed |
| 817.2 | 66.5434 | 70.9695 | -6.65145 | 10 | Passed |
| 819.2 | 66.3537 | 70.9709 | -6.95847 | 10 | Passed |
| 821.3 | 47.0015 | 51.8822 | -10.3843 | 10 | Failed |

## 测试数据记录

