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, 15:18:37 |
| 测试结束时间 | Wednesday, June 7, 2023, 15:22:56 |
| 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 | 81.1 | 102.0 |
| 2 | 测试阶段 | #Action | 102.4 | 165.9 |
| 3 | 停止阶段 | #Cleanup | 319.9 | 320.0 |

## 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 |
| 102.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 104.9 | 0.384877 | -0.2 | 0.4 | Passed |
| 107.2 | 0.384297 | -0.2 | 0.4 | Passed |
| 109.5 | 0.384136 | -0.2 | 0.4 | Passed |
| 111.9 | -0.00365247 | -0.2 | 0.4 | Passed |
| 114.4 | -0.00384578 | -0.2 | 0.4 | Passed |
| 116.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 119.2 | -0.0631609 | -0.2 | 0.4 | Passed |
| 121.6 | -0.090676 | -0.2 | 0.4 | Passed |
| 124.0 | -0.0774017 | -0.2 | 0.4 | Passed |
| 126.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 129.1 | -0.00384578 | -0.2 | 0.4 | Passed |
| 131.5 | -0.00423241 | -0.2 | 0.4 | Passed |
| 133.9 | -0.00413575 | -0.2 | 0.4 | Passed |
| 136.4 | -0.00374913 | -0.2 | 0.4 | Passed |
| 138.8 | -0.00397466 | -0.2 | 0.4 | Passed |
| 141.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 144.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 146.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 149.0 | -0.00384578 | -0.2 | 0.4 | Passed |
| 151.5 | -0.00426463 | -0.2 | 0.4 | Passed |
| 154.0 | -0.003878 | -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 |
| 103.1 | 20.9956 | 21.0618 | -0.315577 | 10 | Passed |
| 105.4 | 55.1466 | 54.6478 | 0.904438 | 10 | Passed |
| 107.7 | 99.543 | 98.9623 | 0.583361 | 10 | Passed |
| 110.1 | 139.006 | 138.994 | 0.00871186 | 10 | Passed |
| 112.5 | 139.006 | 138.994 | 0.0089118 | 10 | Passed |
| 115.0 | 139.006 | 138.996 | 0.00761543 | 10 | Passed |
| 117.4 | 139.006 | 138.998 | 0.00634133 | 10 | Passed |
| 119.8 | 116.808 | 117.357 | -0.469752 | 10 | Passed |
| 122.2 | 71.2735 | 71.8662 | -0.831538 | 10 | Passed |
| 124.6 | 24.5814 | 25.2243 | -2.6152 | 10 | Passed |
| 127.1 | 20.9766 | 21.0434 | -0.318664 | 10 | Passed |
| 129.7 | 20.9766 | 21.0413 | -0.308504 | 10 | Passed |
| 132.1 | 20.9766 | 21.0441 | -0.321636 | 10 | Passed |
| 134.6 | 20.9766 | 21.0423 | -0.313091 | 10 | Passed |
| 137.0 | 44.6926 | 44.7638 | -0.159335 | 10 | Passed |
| 139.6 | 92.5041 | 93.9364 | -1.54837 | 10 | Passed |
| 142.1 | 135.003 | 141.931 | -5.13158 | 10 | Passed |
| 144.7 | 135.003 | 142.085 | -5.24547 | 10 | Passed |
| 147.1 | 135.003 | 142.091 | -5.24985 | 10 | Passed |
| 149.6 | 135.003 | 142.093 | -5.25184 | 10 | Passed |
| 152.2 | 110.718 | 120.799 | -9.10526 | 10 | Passed |
| 154.8 | 60.6297 | 67.3967 | -11.1612 | 10 | Failed |

## 测试数据记录

