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 29, 2023, 17:08:57 |
| 测试结束时间 | Thursday, June 29, 2023, 17:10:49 |
| 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 | 80.9 | 101.7 |
| 2 | 测试阶段 | #Action | 102.0 | 165.5 |
| 3 | 停止阶段 | #Cleanup | 165.7 | 165.8 |

## 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 |
| 102.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 104.3 | 0.386681 | -0.2 | 0.4 | Passed |
| 106.5 | 0.386423 | -0.2 | 0.4 | Passed |
| 108.9 | 0.386037 | -0.2 | 0.4 | Passed |
| 111.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 113.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 115.0 | -0.00378134 | -0.2 | 0.4 | Passed |
| 117.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 119.0 | -0.12093 | -0.2 | 0.4 | Passed |
| 120.8 | -0.05066 | -0.2 | 0.4 | Passed |
| 122.7 | -0.0554928 | -0.2 | 0.4 | Passed |
| 124.6 | -0.00436129 | -0.2 | 0.4 | Passed |
| 126.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 128.6 | -0.0040391 | -0.2 | 0.4 | Passed |
| 130.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 132.5 | -0.00410353 | -0.2 | 0.4 | Passed |
| 134.4 | -0.00374913 | -0.2 | 0.4 | Passed |
| 136.4 | -0.00416797 | -0.2 | 0.4 | Passed |
| 138.5 | -0.00400688 | -0.2 | 0.4 | Passed |
| 140.5 | -0.00371691 | -0.2 | 0.4 | Passed |
| 142.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 144.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 146.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 148.7 | -0.00407132 | -0.2 | 0.4 | Passed |
| 150.9 | -0.00423241 | -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 |
| 102.7 | 20.9956 | 21.065 | -0.330772 | 10 | Passed |
| 104.8 | 51.352 | 50.8627 | 0.952866 | 10 | Passed |
| 107.0 | 94.61 | 94.0351 | 0.607654 | 10 | Passed |
| 109.4 | 139.006 | 138.991 | 0.0112722 | 10 | Passed |
| 111.7 | 139.006 | 138.995 | 0.00829262 | 10 | Passed |
| 113.6 | 139.006 | 138.99 | 0.0118461 | 10 | Passed |
| 115.5 | 139.006 | 138.994 | 0.00862874 | 10 | Passed |
| 117.5 | 139.006 | 138.988 | 0.0128881 | 10 | Passed |
| 119.3 | 117.928 | 118.476 | -0.465026 | 10 | Passed |
| 121.1 | 83.7766 | 84.3631 | -0.700125 | 10 | Passed |
| 123.0 | 47.3488 | 48.008 | -1.39215 | 10 | Passed |
| 125.0 | 20.9766 | 21.0478 | -0.339249 | 10 | Passed |
| 127.0 | 20.9766 | 21.0458 | -0.329789 | 10 | Passed |
| 129.1 | 20.9766 | 21.0454 | -0.327869 | 10 | Passed |
| 130.9 | 20.9766 | 21.0426 | -0.314485 | 10 | Passed |
| 132.9 | 20.9766 | 21.045 | -0.326051 | 10 | Passed |
| 134.9 | 20.9766 | 20.8827 | 0.447808 | 10 | Passed |
| 136.9 | 48.6769 | 50.6307 | -4.01379 | 10 | Passed |
| 138.9 | 86.243 | 90.6984 | -5.16609 | 10 | Passed |
| 140.9 | 124.967 | 131.328 | -5.0902 | 10 | Passed |
| 143.0 | 131.038 | 141.996 | -8.36292 | 10 | Passed |
| 145.1 | 131.038 | 142.001 | -8.36625 | 10 | Passed |
| 147.2 | 131.038 | 142.003 | -8.36765 | 10 | Passed |
| 149.3 | 131.038 | 142.002 | -8.36741 | 10 | Passed |
| 151.4 | 114.531 | 128.925 | -12.5672 | 10 | Failed |

## 测试数据记录

