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, July 6, 2023, 18:39:17 |
| 测试结束时间 | Thursday, July 6, 2023, 18:41:08 |
| 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 | 900.5 | 921.3 |
| 2 | 测试阶段 | #Action | 921.5 | 985.2 |
| 3 | 停止阶段 | #Cleanup | 985.4 | 985.4 |

## 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 |
| 921.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 923.2 | 0.387712 | -0.2 | 0.4 | Passed |
| 925.0 | 0.385972 | -0.2 | 0.4 | Passed |
| 926.6 | 0.385876 | -0.2 | 0.4 | Passed |
| 928.3 | 0.38565 | -0.2 | 0.4 | Passed |
| 930.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 931.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 933.6 | -0.00371691 | -0.2 | 0.4 | Passed |
| 935.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 937.0 | -0.00410353 | -0.2 | 0.4 | Passed |
| 938.8 | -0.0915781 | -0.2 | 0.4 | Passed |
| 940.5 | -0.0728266 | -0.2 | 0.4 | Passed |
| 942.3 | -0.093769 | -0.2 | 0.4 | Passed |
| 944.1 | -0.0576515 | -0.2 | 0.4 | Passed |
| 946.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 947.8 | -0.00407132 | -0.2 | 0.4 | Passed |
| 949.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 951.6 | -0.00394244 | -0.2 | 0.4 | Passed |
| 953.5 | -0.00426463 | -0.2 | 0.4 | Passed |
| 955.4 | -0.00426463 | -0.2 | 0.4 | Passed |
| 957.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 959.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 961.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 963.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 965.1 | -0.00426463 | -0.2 | 0.4 | Passed |
| 967.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 969.2 | -0.00394244 | -0.2 | 0.4 | Passed |
| 971.2 | -0.00410353 | -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 |
| 921.8 | 10.4978 | 10.5293 | -0.300019 | 10 | Passed |
| 923.6 | 17.8972 | 17.6557 | 1.34916 | 10 | Passed |
| 925.3 | 33.8343 | 33.5745 | 0.767797 | 10 | Passed |
| 926.9 | 49.2023 | 48.914 | 0.585989 | 10 | Passed |
| 928.6 | 65.7086 | 65.4171 | 0.4436 | 10 | Passed |
| 930.4 | 69.5032 | 69.4967 | 0.00931653 | 10 | Passed |
| 932.1 | 69.5032 | 69.4967 | 0.00940966 | 10 | Passed |
| 933.9 | 69.5032 | 69.4986 | 0.00667825 | 10 | Passed |
| 935.6 | 69.5032 | 69.4985 | 0.00672597 | 10 | Passed |
| 937.4 | 69.5032 | 69.498 | 0.00745203 | 10 | Passed |
| 939.1 | 57.3606 | 57.6345 | -0.477495 | 10 | Passed |
| 940.9 | 40.2851 | 40.5817 | -0.736203 | 10 | Passed |
| 942.7 | 23.2096 | 23.5357 | -1.40518 | 10 | Passed |
| 944.5 | 10.4978 | 10.5305 | -0.311647 | 10 | Passed |
| 946.4 | 10.4978 | 10.5291 | -0.298718 | 10 | Passed |
| 948.2 | 10.4978 | 10.5308 | -0.314576 | 10 | Passed |
| 950.1 | 10.4978 | 10.5299 | -0.30621 | 10 | Passed |
| 952.1 | 10.4978 | 10.5285 | -0.292734 | 10 | Passed |
| 953.9 | 10.4978 | 10.5311 | -0.317279 | 10 | Passed |
| 955.9 | 18.2766 | 18.0076 | 1.47215 | 10 | Passed |
| 957.8 | 37.0597 | 38.1681 | -2.99094 | 10 | Passed |
| 959.8 | 55.8523 | 58.5914 | -4.90433 | 10 | Passed |
| 961.7 | 66.7616 | 71.1811 | -6.61984 | 10 | Passed |
| 963.6 | 66.7616 | 71.1871 | -6.62871 | 10 | Passed |
| 965.6 | 66.7616 | 71.1896 | -6.63249 | 10 | Passed |
| 967.7 | 66.7616 | 71.1914 | -6.63523 | 10 | Passed |
| 969.6 | 66.7616 | 71.1918 | -6.63581 | 10 | Passed |
| 971.7 | 51.7731 | 56.9806 | -10.0583 | 10 | Failed |

## 测试数据记录

