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 13, 2023, 13:44:56 |
| 测试结束时间 | Thursday, July 13, 2023, 13:46:57 |
| 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 | 73364.4 | 73386.1 |
| 2 | 测试阶段 | #Action | 73387.1 | 73451.3 |
| 3 | 停止阶段 | #Cleanup | 73451.4 | 73451.5 |

## 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 |
| 73387.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 73389.4 | 0.386971 | -0.2 | 0.4 | Passed |
| 73391.4 | 0.386133 | -0.2 | 0.4 | Passed |
| 73393.7 | 0.385521 | -0.2 | 0.4 | Passed |
| 73396.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 73398.4 | -0.00365247 | -0.2 | 0.4 | Passed |
| 73400.5 | -0.00432907 | -0.2 | 0.4 | Passed |
| 73403.0 | -0.00378134 | -0.2 | 0.4 | Passed |
| 73405.2 | -0.0786905 | -0.2 | 0.4 | Passed |
| 73407.2 | -0.0716023 | -0.2 | 0.4 | Passed |
| 73409.2 | -0.0751464 | -0.2 | 0.4 | Passed |
| 73411.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 73413.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 73415.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 73417.4 | -0.00374913 | -0.2 | 0.4 | Passed |
| 73419.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 73421.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 73423.9 | -0.00410353 | -0.2 | 0.4 | Passed |
| 73426.1 | -0.00365247 | -0.2 | 0.4 | Passed |
| 73428.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 73430.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 73433.0 | -0.00374913 | -0.2 | 0.4 | Passed |
| 73435.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 73437.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 73439.4 | -0.00391022 | -0.2 | 0.4 | Passed |
| 73441.5 | -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 |
| 73387.6 | 10.4978 | 10.5326 | -0.332023 | 10 | Passed |
| 73389.9 | 21.9763 | 21.7349 | 1.0986 | 10 | Passed |
| 73392.1 | 43.0361 | 42.756 | 0.650951 | 10 | Passed |
| 73394.4 | 64.6651 | 64.3728 | 0.452084 | 10 | Passed |
| 73396.7 | 69.5032 | 69.4965 | 0.00968061 | 10 | Passed |
| 73398.8 | 69.5032 | 69.498 | 0.00743513 | 10 | Passed |
| 73401.2 | 69.5032 | 69.4958 | 0.010621 | 10 | Passed |
| 73403.6 | 69.5032 | 69.4964 | 0.00981694 | 10 | Passed |
| 73405.7 | 51.1944 | 51.4738 | -0.54568 | 10 | Passed |
| 73407.6 | 32.9806 | 33.2915 | -0.942693 | 10 | Passed |
| 73409.8 | 11.9113 | 12.2355 | -2.7225 | 10 | Passed |
| 73411.8 | 10.4883 | 10.5233 | -0.333655 | 10 | Passed |
| 73413.9 | 10.4883 | 10.5222 | -0.323363 | 10 | Passed |
| 73415.8 | 10.4883 | 10.5235 | -0.336057 | 10 | Passed |
| 73417.9 | 10.4883 | 10.523 | -0.331133 | 10 | Passed |
| 73419.8 | 10.4883 | 10.5228 | -0.32865 | 10 | Passed |
| 73422.2 | 19.6901 | 18.4948 | 6.07048 | 10 | Passed |
| 73424.4 | 40.7499 | 39.9311 | 2.00932 | 10 | Passed |
| 73426.8 | 63.5173 | 65.5007 | -3.12258 | 10 | Passed |
| 73428.9 | 68.4502 | 70.978 | -3.69287 | 10 | Passed |
| 73431.4 | 68.4502 | 70.9817 | -3.69826 | 10 | Passed |
| 73433.6 | 68.4502 | 70.9838 | -3.70138 | 10 | Passed |
| 73435.6 | 68.4502 | 70.9836 | -3.70102 | 10 | Passed |
| 73437.8 | 53.4617 | 55.7296 | -4.24205 | 10 | Passed |
| 73439.9 | 33.5402 | 34.7807 | -3.69834 | 10 | Passed |
| 73442.0 | 13.6188 | 15.8759 | -16.5737 | 10 | Failed |

## 测试数据记录

