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 | Friday, June 30, 2023, 10:26:45 |
| 测试结束时间 | Friday, June 30, 2023, 10:28:38 |
| 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 | 943.4 | 967.6 |
| 2 | 测试阶段 | #Action | 967.7 | 1031.3 |
| 3 | 停止阶段 | #Cleanup | 1031.4 | 1031.5 |

## 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 |
| 967.7 | -0.00368469 | -0.2 | 0.4 | Passed |
| 970.3 | 0.387164 | -0.2 | 0.4 | Passed |
| 972.7 | 0.386874 | -0.2 | 0.4 | Passed |
| 975.1 | 0.386069 | -0.2 | 0.4 | Passed |
| 977.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 980.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 983.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 986.0 | -0.146544 | -0.2 | 0.4 | Passed |
| 988.7 | -0.0812036 | -0.2 | 0.4 | Passed |
| 991.1 | -0.00429685 | -0.2 | 0.4 | Passed |
| 993.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 996.5 | -0.00368469 | -0.2 | 0.4 | Passed |
| 998.8 | -0.00394244 | -0.2 | 0.4 | Passed |
| 1001.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 1003.7 | -0.00391022 | -0.2 | 0.4 | Passed |
| 1006.1 | -0.00407132 | -0.2 | 0.4 | Passed |
| 1008.7 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1011.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1013.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 1016.1 | -0.00407132 | -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 |
| 968.5 | 4.80594 | 4.82045 | -0.30184 | 10 | Passed |
| 970.9 | 23.6839 | 23.4415 | 1.02345 | 10 | Passed |
| 973.4 | 47.5896 | 47.3028 | 0.602726 | 10 | Passed |
| 975.8 | 69.5032 | 69.4956 | 0.0109171 | 10 | Passed |
| 978.4 | 69.5032 | 69.4964 | 0.00972791 | 10 | Passed |
| 981.3 | 69.5032 | 69.4978 | 0.00780938 | 10 | Passed |
| 984.0 | 69.3135 | 69.4975 | -0.2655 | 10 | Passed |
| 986.9 | 41.9831 | 42.2739 | -0.692498 | 10 | Passed |
| 989.4 | 18.0774 | 18.4066 | -1.82074 | 10 | Passed |
| 992.0 | 10.4883 | 10.5208 | -0.309578 | 10 | Passed |
| 994.6 | 10.4883 | 10.5214 | -0.315481 | 10 | Passed |
| 997.1 | 10.4883 | 10.5207 | -0.309079 | 10 | Passed |
| 999.4 | 10.4883 | 10.5207 | -0.30913 | 10 | Passed |
| 1001.9 | 17.6031 | 17.3879 | 1.22226 | 10 | Passed |
| 1004.4 | 40.9396 | 42.4218 | -3.62033 | 10 | Passed |
| 1006.8 | 63.707 | 66.3355 | -4.12588 | 10 | Passed |
| 1009.6 | 66.5624 | 70.894 | -6.50751 | 10 | Passed |
| 1012.0 | 66.5624 | 70.8957 | -6.51013 | 10 | Passed |
| 1014.5 | 66.5624 | 70.8969 | -6.51187 | 10 | Passed |
| 1016.8 | 61.3449 | 67.8613 | -10.6226 | 10 | Failed |

## 测试数据记录

