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 | Monday, June 26, 2023, 10:38:02 |
| 测试结束时间 | Monday, June 26, 2023, 10:39:56 |
| 操作员 | administrator |
| UUT编号 |  |
| 测试结果 | Passed |

# 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 | 879.3 | 899.6 |
| 2 | 测试阶段 | #Action | 899.8 | 963.3 |
| 3 | 停止阶段 | #Cleanup | 963.6 | 978.8 |

## 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 |
| 899.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 902.4 | -0.00410353 | -0.2 | 0.4 | Passed |
| 905.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 907.9 | -0.00384578 | -0.2 | 0.4 | Passed |
| 910.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 913.5 | -0.00391022 | -0.2 | 0.4 | Passed |
| 916.1 | -0.003878 | -0.2 | 0.4 | Passed |
| 919.0 | -0.00368469 | -0.2 | 0.4 | Passed |
| 921.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 924.2 | -0.00394244 | -0.2 | 0.4 | Passed |
| 927.1 | -0.00378134 | -0.2 | 0.4 | Passed |
| 929.8 | -0.00400688 | -0.2 | 0.4 | Passed |
| 932.6 | -0.00378134 | -0.2 | 0.4 | Passed |
| 935.6 | -0.00394244 | -0.2 | 0.4 | Passed |
| 938.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 941.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 944.0 | -0.00416797 | -0.2 | 0.4 | Passed |
| 946.7 | -0.00384578 | -0.2 | 0.4 | Passed |
| 949.5 | -0.00391022 | -0.2 | 0.4 | Passed |
| 952.3 | -0.00416797 | -0.2 | 0.4 | Passed |
| 955.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 958.4 | -0.00432907 | -0.2 | 0.4 | Passed |
| 961.4 | -0.00397466 | -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 |
| 900.5 | 20.9956 | 21.0617 | -0.31516 | 10 | Passed |
| 903.2 | 20.9956 | 21.0592 | -0.303018 | 10 | Passed |
| 905.9 | 20.9956 | 21.0652 | -0.331837 | 10 | Passed |
| 908.5 | 20.9956 | 21.0632 | -0.322103 | 10 | Passed |
| 911.4 | 20.9956 | 21.0633 | -0.322549 | 10 | Passed |
| 914.1 | 20.9956 | 21.0564 | -0.289974 | 10 | Passed |
| 916.9 | 20.9956 | 21.0649 | -0.330175 | 10 | Passed |
| 919.6 | 20.9956 | 21.0605 | -0.309073 | 10 | Passed |
| 922.3 | 20.9956 | 21.0646 | -0.32882 | 10 | Passed |
| 925.1 | 20.9956 | 21.0582 | -0.298446 | 10 | Passed |
| 927.8 | 20.9956 | 21.0631 | -0.321844 | 10 | Passed |
| 930.5 | 20.9956 | 21.0623 | -0.31801 | 10 | Passed |
| 933.5 | 20.6161 | 20.6601 | -0.213417 | 10 | Passed |
| 936.4 | 20.6161 | 20.6587 | -0.206764 | 10 | Passed |
| 939.3 | 20.6161 | 20.659 | -0.207996 | 10 | Passed |
| 942.1 | 20.6161 | 20.6578 | -0.20199 | 10 | Passed |
| 944.8 | 20.6161 | 20.6574 | -0.200237 | 10 | Passed |
| 947.5 | 20.6161 | 20.6586 | -0.206064 | 10 | Passed |
| 950.4 | 20.6161 | 20.6587 | -0.206588 | 10 | Passed |
| 953.1 | 20.6161 | 20.6594 | -0.209773 | 10 | Passed |
| 956.2 | 20.6161 | 20.6579 | -0.202678 | 10 | Passed |
| 959.3 | 20.6161 | 20.6566 | -0.196207 | 10 | Passed |
| 962.4 | 20.6161 | 20.6584 | -0.204965 | 10 | Passed |

## 测试数据记录

