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 | Tuesday, June 20, 2023, 11:19:10 |
| 测试结束时间 | Tuesday, June 20, 2023, 11:24:04 |
| 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 | 923.7 | 944.0 |
| 2 | 测试阶段 | #Action | 944.2 | 1007.8 |
| 3 | 停止阶段 | #Cleanup | 1200.1 | 1200.2 |

## 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 |
| 944.2 | -0.00394244 | -0.2 | 0.4 | Passed |
| 947.1 | 0.387003 | -0.2 | 0.4 | Passed |
| 949.9 | 0.386359 | -0.2 | 0.4 | Passed |
| 952.7 | -0.00394244 | -0.2 | 0.4 | Passed |
| 956.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 959.8 | -0.00394244 | -0.2 | 0.4 | Passed |
| 962.5 | -0.0908371 | -0.2 | 0.4 | Passed |
| 965.1 | -0.147575 | -0.2 | 0.4 | Passed |
| 968.0 | -0.00368469 | -0.2 | 0.4 | Passed |
| 970.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 973.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 975.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 978.8 | -0.00365247 | -0.2 | 0.4 | Passed |
| 981.6 | -0.00432907 | -0.2 | 0.4 | Passed |
| 984.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 986.9 | -0.003878 | -0.2 | 0.4 | Passed |
| 989.6 | -0.00432907 | -0.2 | 0.4 | Passed |
| 992.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 995.8 | -0.00381356 | -0.2 | 0.4 | Passed |
| 998.9 | -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 |
| 945.1 | 13.9377 | 13.9847 | -0.337406 | 10 | Passed |
| 947.8 | 60.421 | 59.9202 | 0.828943 | 10 | Passed |
| 950.6 | 113.924 | 113.332 | 0.520224 | 10 | Passed |
| 953.7 | 138.968 | 138.951 | 0.0122942 | 10 | Passed |
| 957.1 | 138.968 | 138.953 | 0.011207 | 10 | Passed |
| 960.6 | 136.502 | 137.056 | -0.406185 | 10 | Passed |
| 963.1 | 88.6905 | 89.2633 | -0.645771 | 10 | Passed |
| 965.9 | 36.3256 | 36.9875 | -1.82206 | 10 | Passed |
| 968.6 | 20.9576 | 21.0254 | -0.323547 | 10 | Passed |
| 971.3 | 20.9576 | 21.0276 | -0.333737 | 10 | Passed |
| 973.9 | 20.9576 | 21.0289 | -0.340024 | 10 | Passed |
| 976.8 | 20.9576 | 20.9406 | 0.0813614 | 10 | Passed |
| 979.8 | 61.7491 | 62.246 | -0.80464 | 10 | Passed |
| 982.4 | 111.837 | 113.813 | -1.76634 | 10 | Passed |
| 985.1 | 137.261 | 142.156 | -3.56655 | 10 | Passed |
| 987.8 | 137.261 | 142.163 | -3.57139 | 10 | Passed |
| 990.5 | 137.261 | 142.166 | -3.57365 | 10 | Passed |
| 993.5 | 121.893 | 131.195 | -7.63169 | 10 | Passed |
| 996.7 | 61.5594 | 67.0989 | -8.99854 | 10 | Passed |
| 999.9 | 14.2982 | 20.9865 | -46.7776 | 10 | Failed |

## 测试数据记录

