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 13, 2023, 15:40:37 |
| 测试结束时间 | Tuesday, June 13, 2023, 15:42:20 |
| 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 | 953.0 | 973.3 |
| 2 | 测试阶段 | #Action | 973.4 | 1037.0 |
| 3 | 停止阶段 | #Cleanup | 1037.5 | 1037.5 |

## 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 |
| 973.5 | -0.00371691 | -0.2 | 0.4 | Passed |
| 975.8 | 0.387454 | -0.2 | 0.4 | Passed |
| 978.1 | 0.386939 | -0.2 | 0.4 | Passed |
| 980.3 | 0.386584 | -0.2 | 0.4 | Passed |
| 982.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 985.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 987.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 989.9 | -0.0675749 | -0.2 | 0.4 | Passed |
| 992.1 | -0.0633865 | -0.2 | 0.4 | Passed |
| 994.4 | -0.0722467 | -0.2 | 0.4 | Passed |
| 996.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 999.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 1002.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 1004.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 1007.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1009.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 1012.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 1014.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 1017.2 | -0.00381356 | -0.2 | 0.4 | Passed |
| 1019.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1022.5 | -0.0043935 | -0.2 | 0.4 | Passed |
| 1025.5 | -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 |
| 974.2 | 20.9956 | 21.0601 | -0.307149 | 10 | Passed |
| 976.3 | 52.5094 | 52.0153 | 0.94097 | 10 | Passed |
| 978.5 | 94.629 | 94.0523 | 0.609443 | 10 | Passed |
| 980.9 | 139.025 | 138.437 | 0.422992 | 10 | Passed |
| 983.1 | 139.025 | 139.017 | 0.00609308 | 10 | Passed |
| 985.7 | 139.025 | 139.013 | 0.00874716 | 10 | Passed |
| 988.0 | 139.025 | 139.015 | 0.00775881 | 10 | Passed |
| 990.4 | 127.072 | 127.631 | -0.439487 | 10 | Passed |
| 992.7 | 82.6761 | 83.2631 | -0.709939 | 10 | Passed |
| 995.0 | 38.2798 | 38.94 | -1.72459 | 10 | Passed |
| 997.6 | 20.8248 | 20.8897 | -0.311418 | 10 | Passed |
| 1000.0 | 20.8248 | 20.8905 | -0.315502 | 10 | Passed |
| 1002.8 | 20.8248 | 20.8905 | -0.31562 | 10 | Passed |
| 1005.2 | 20.8248 | 20.8897 | -0.311615 | 10 | Passed |
| 1007.6 | 34.2955 | 33.6885 | 1.76991 | 10 | Passed |
| 1010.0 | 79.8302 | 80.9565 | -1.41085 | 10 | Passed |
| 1012.7 | 129.918 | 132.583 | -2.05083 | 10 | Passed |
| 1015.4 | 136.179 | 142.108 | -4.35331 | 10 | Passed |
| 1017.8 | 136.179 | 142.114 | -4.35776 | 10 | Passed |
| 1020.5 | 136.179 | 142.117 | -4.36036 | 10 | Passed |
| 1023.3 | 111.894 | 120.963 | -8.10447 | 10 | Passed |
| 1026.4 | 52.6991 | 59.1585 | -12.2571 | 10 | Failed |

## 测试数据记录

