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 |

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| --- | --- |
| 测试开始时间 | Thursday, June 15, 2023, 11:15:53 |
| 测试结束时间 | Thursday, June 15, 2023, 11:17:26 |
| 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 | 16.9 | 37.1 |
| 2 | 测试阶段 | #Action | 37.4 | 101.0 |
| 3 | 停止阶段 | #Cleanup | 101.1 | 101.2 |

## 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 |
| 37.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 39.8 | 0.382783 | -0.2 | 0.4 | Passed |
| 42.1 | 0.382364 | -0.2 | 0.4 | Passed |
| 44.2 | 0.382203 | -0.2 | 0.4 | Passed |
| 46.5 | -0.00423241 | -0.2 | 0.4 | Passed |
| 48.8 | -0.00407132 | -0.2 | 0.4 | Passed |
| 51.2 | -0.00410353 | -0.2 | 0.4 | Passed |
| 53.5 | -0.00426463 | -0.2 | 0.4 | Passed |
| 55.8 | -0.068767 | -0.2 | 0.4 | Passed |
| 58.1 | -0.0878407 | -0.2 | 0.4 | Passed |
| 60.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 62.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 65.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 67.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 70.2 | -0.00416797 | -0.2 | 0.4 | Passed |
| 72.6 | -0.00400688 | -0.2 | 0.4 | Passed |
| 75.0 | -0.00426463 | -0.2 | 0.4 | Passed |
| 77.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 80.0 | -0.00391022 | -0.2 | 0.4 | Passed |
| 82.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 85.1 | -0.00432907 | -0.2 | 0.4 | Passed |
| 87.7 | -0.00432907 | -0.2 | 0.4 | Passed |
| 90.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 93.0 | -0.00429685 | -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 |
| 38.1 | 20.9766 | 21.0427 | -0.315155 | 10 | Passed |
| 40.4 | 55.6968 | 55.2018 | 0.888852 | 10 | Passed |
| 42.6 | 96.6781 | 96.1012 | 0.59674 | 10 | Passed |
| 44.8 | 137.659 | 137.073 | 0.425611 | 10 | Passed |
| 47.1 | 138.987 | 138.972 | 0.0109962 | 10 | Passed |
| 49.4 | 138.987 | 138.971 | 0.0115928 | 10 | Passed |
| 51.8 | 138.987 | 138.973 | 0.0104344 | 10 | Passed |
| 54.1 | 130.639 | 131.191 | -0.42188 | 10 | Passed |
| 56.4 | 87.3814 | 87.9547 | -0.656152 | 10 | Passed |
| 58.7 | 42.985 | 43.6436 | -1.53215 | 10 | Passed |
| 61.2 | 20.9766 | 21.0475 | -0.337912 | 10 | Passed |
| 63.6 | 20.9766 | 21.047 | -0.335531 | 10 | Passed |
| 66.0 | 20.9766 | 21.0451 | -0.326602 | 10 | Passed |
| 68.5 | 20.9766 | 21.0438 | -0.320399 | 10 | Passed |
| 70.9 | 20.9766 | 20.5117 | 2.2164 | 10 | Passed |
| 73.3 | 67.46 | 63.7631 | 5.48013 | 10 | Passed |
| 75.7 | 112.995 | 111.487 | 1.33402 | 10 | Passed |
| 78.2 | 139.177 | 142.195 | -2.16848 | 10 | Passed |
| 80.8 | 139.177 | 142.202 | -2.17335 | 10 | Passed |
| 83.4 | 139.177 | 142.203 | -2.17381 | 10 | Passed |
| 85.9 | 139.177 | 142.205 | -2.17575 | 10 | Passed |
| 88.4 | 92.1246 | 93.7088 | -1.71964 | 10 | Passed |
| 91.2 | 39.7407 | 42.5964 | -7.18575 | 10 | Passed |
| 93.9 | 16.4042 | 20.8889 | -27.3389 | 10 | Failed |

## 测试数据记录

