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, 10:42:35 |
| 测试结束时间 | Friday, June 30, 2023, 10:44:31 |
| 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 | 100.3 | 121.3 |
| 2 | 测试阶段 | #Action | 121.5 | 185.3 |
| 3 | 停止阶段 | #Cleanup | 190.4 | 190.5 |

## 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 |
| 121.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 124.2 | 0.387132 | -0.2 | 0.4 | Passed |
| 126.8 | 0.386746 | -0.2 | 0.4 | Passed |
| 129.1 | 0.308228 | -0.2 | 0.4 | Passed |
| 131.6 | -0.00407132 | -0.2 | 0.4 | Passed |
| 134.1 | -0.00416797 | -0.2 | 0.4 | Passed |
| 136.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 139.0 | -0.0353882 | -0.2 | 0.4 | Passed |
| 141.4 | -0.0431207 | -0.2 | 0.4 | Passed |
| 144.0 | -0.0893228 | -0.2 | 0.4 | Passed |
| 146.5 | -0.00397466 | -0.2 | 0.4 | Passed |
| 149.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 151.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 154.5 | -0.00394244 | -0.2 | 0.4 | Passed |
| 157.1 | -0.00413575 | -0.2 | 0.4 | Passed |
| 159.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 162.2 | -0.003878 | -0.2 | 0.4 | Passed |
| 164.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 167.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 169.8 | -0.00429685 | -0.2 | 0.4 | Passed |
| 172.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 175.1 | -0.00391022 | -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 |
| 122.5 | 10.4883 | 10.5206 | -0.30805 | 10 | Passed |
| 125.0 | 30.22 | 29.9653 | 0.842901 | 10 | Passed |
| 127.3 | 52.4182 | 52.1253 | 0.558722 | 10 | Passed |
| 129.7 | 69.4937 | 69.4864 | 0.0105551 | 10 | Passed |
| 132.2 | 69.4937 | 69.487 | 0.00964237 | 10 | Passed |
| 134.6 | 69.4937 | 69.4873 | 0.00919132 | 10 | Passed |
| 137.2 | 69.4937 | 69.4872 | 0.00942525 | 10 | Passed |
| 139.6 | 54.0309 | 54.3046 | -0.506613 | 10 | Passed |
| 142.1 | 30.1251 | 30.4433 | -1.05596 | 10 | Passed |
| 144.7 | 10.4883 | 10.5182 | -0.285166 | 10 | Passed |
| 147.2 | 10.4883 | 10.5225 | -0.325701 | 10 | Passed |
| 149.7 | 10.4883 | 10.5208 | -0.309459 | 10 | Passed |
| 152.5 | 10.4883 | 10.5203 | -0.305112 | 10 | Passed |
| 155.2 | 10.4883 | 10.4221 | 0.631202 | 10 | Passed |
| 157.8 | 34.9632 | 35.7764 | -2.32573 | 10 | Passed |
| 160.4 | 59.4381 | 61.8548 | -4.06596 | 10 | Passed |
| 162.9 | 67.9759 | 70.6115 | -3.8773 | 10 | Passed |
| 165.4 | 67.9759 | 70.6148 | -3.88214 | 10 | Passed |
| 168.0 | 67.9759 | 70.6161 | -3.88411 | 10 | Passed |
| 170.5 | 65.5094 | 70.5526 | -7.69848 | 10 | Passed |
| 173.2 | 40.4653 | 43.6753 | -7.93273 | 10 | Passed |
| 175.7 | 15.9809 | 19.5774 | -22.5049 | 10 | Failed |

## 测试数据记录

