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, 13:23:23 |
| 测试结束时间 | Tuesday, June 20, 2023, 13:25:20 |
| 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 | 70.7 | 91.2 |
| 2 | 测试阶段 | #Action | 91.4 | 139.8 |
| 3 | 停止阶段 | #Cleanup | 140.0 | 155.2 |

## 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 |
| 91.4 | -0.00384578 | -0.2 | 0.4 | Passed |
| 94.3 | 0.385489 | -0.2 | 0.4 | Passed |
| 96.9 | 0.384973 | -0.2 | 0.4 | Passed |
| 99.8 | -0.00407132 | -0.2 | 0.4 | Passed |
| 102.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 104.9 | -0.00371691 | -0.2 | 0.4 | Passed |
| 107.6 | -0.003878 | -0.2 | 0.4 | Passed |
| 110.3 | -0.122573 | -0.2 | 0.4 | Passed |
| 113.0 | -0.0837167 | -0.2 | 0.4 | Passed |
| 116.0 | -0.00374913 | -0.2 | 0.4 | Passed |
| 118.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 121.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 124.3 | -0.00394244 | -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 |
| 92.3 | 20.9956 | 21.0615 | -0.314221 | 10 | Passed |
| 95.0 | 67.8584 | 67.3423 | 0.760537 | 10 | Passed |
| 97.7 | 117.947 | 117.355 | 0.501913 | 10 | Passed |
| 100.7 | 139.006 | 138.991 | 0.0107984 | 10 | Passed |
| 103.2 | 139.006 | 138.994 | 0.00925723 | 10 | Passed |
| 105.5 | 139.006 | 138.994 | 0.00901616 | 10 | Passed |
| 108.3 | 125.915 | 126.465 | -0.436853 | 10 | Passed |
| 111.0 | 74.6696 | 75.2787 | -0.815749 | 10 | Passed |
| 113.8 | 21.1663 | 21.8089 | -3.03581 | 10 | Passed |
| 116.7 | 20.9766 | 21.0463 | -0.332106 | 10 | Passed |
| 119.6 | 20.9766 | 21.0448 | -0.325016 | 10 | Passed |
| 122.3 | 20.9766 | 21.0431 | -0.317061 | 10 | Passed |
| 125.0 | 20.9766 | 140.004 | -567.431 | 10 | Failed |

## 测试数据记录

