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 29, 2023, 16:58:40 |
| 测试结束时间 | Thursday, June 29, 2023, 17:02:04 |
| 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 | 74.6 | 95.7 |
| 2 | 测试阶段 | #Action | 96.0 | 159.6 |
| 3 | 停止阶段 | #Cleanup | 252.6 | 252.8 |

## 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 |
| 96.0 | -0.0040391 | -0.2 | 0.4 | Passed |
| 98.3 | 0.386584 | -0.2 | 0.4 | Passed |
| 100.4 | 0.386294 | -0.2 | 0.4 | Passed |
| 102.6 | 0.386037 | -0.2 | 0.4 | Passed |
| 104.8 | -0.00426463 | -0.2 | 0.4 | Passed |
| 107.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 109.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 111.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 113.9 | -0.0798182 | -0.2 | 0.4 | Passed |
| 116.1 | -0.0390611 | -0.2 | 0.4 | Passed |
| 118.3 | -0.084361 | -0.2 | 0.4 | Passed |
| 120.6 | -0.00384578 | -0.2 | 0.4 | Passed |
| 122.9 | -0.00391022 | -0.2 | 0.4 | Passed |
| 125.2 | -0.00426463 | -0.2 | 0.4 | Passed |
| 127.4 | -0.00429685 | -0.2 | 0.4 | Passed |
| 129.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 132.1 | -0.00407132 | -0.2 | 0.4 | Passed |
| 134.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 136.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 139.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 142.6 | -0.00432907 | -0.2 | 0.4 | Passed |
| 145.0 | -0.00449016 | -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 |
| 96.6 | 20.9766 | 21.0461 | -0.33133 | 10 | Passed |
| 98.8 | 50.7639 | 50.2764 | 0.960383 | 10 | Passed |
| 101.0 | 92.8835 | 92.3171 | 0.609816 | 10 | Passed |
| 103.1 | 132.726 | 132.137 | 0.443695 | 10 | Passed |
| 105.3 | 138.987 | 138.972 | 0.0113182 | 10 | Passed |
| 107.5 | 138.987 | 138.973 | 0.0105057 | 10 | Passed |
| 109.8 | 138.987 | 138.971 | 0.0115315 | 10 | Passed |
| 112.0 | 138.987 | 138.975 | 0.00906817 | 10 | Passed |
| 114.4 | 98.5753 | 99.1323 | -0.565004 | 10 | Passed |
| 116.6 | 55.3174 | 55.9588 | -1.15953 | 10 | Passed |
| 118.9 | 20.9766 | 21.0453 | -0.327352 | 10 | Passed |
| 121.3 | 20.9766 | 21.042 | -0.311671 | 10 | Passed |
| 123.4 | 20.9766 | 21.0436 | -0.319644 | 10 | Passed |
| 125.7 | 20.9766 | 21.0434 | -0.318431 | 10 | Passed |
| 128.0 | 20.9766 | 21.041 | -0.306881 | 10 | Passed |
| 130.3 | 37.8624 | 38.0348 | -0.455449 | 10 | Passed |
| 132.7 | 83.3971 | 87.4102 | -4.81198 | 10 | Passed |
| 135.1 | 128.932 | 136.233 | -5.66299 | 10 | Passed |
| 137.5 | 131.209 | 142.085 | -8.28954 | 10 | Passed |
| 140.0 | 131.209 | 142.09 | -8.29308 | 10 | Passed |
| 143.2 | 131.209 | 142.093 | -8.29538 | 10 | Passed |
| 145.7 | 110.149 | 124.215 | -12.7701 | 10 | Failed |

## 测试数据记录

