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 | Thursday, June 29, 2023, 17:34:46 |
| 测试结束时间 | Thursday, June 29, 2023, 17:36:29 |
| 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 | 91.5 | 112.0 |
| 2 | 测试阶段 | #Action | 112.2 | 175.7 |
| 3 | 停止阶段 | #Cleanup | 175.8 | 175.9 |

## 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 |
| 112.3 | -0.00413575 | -0.2 | 0.4 | Passed |
| 114.6 | 0.386778 | -0.2 | 0.4 | Passed |
| 116.9 | 0.386069 | -0.2 | 0.4 | Passed |
| 119.3 | 0.386101 | -0.2 | 0.4 | Passed |
| 121.5 | -0.0040391 | -0.2 | 0.4 | Passed |
| 123.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 126.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 128.4 | -0.06126 | -0.2 | 0.4 | Passed |
| 130.8 | -0.0514977 | -0.2 | 0.4 | Passed |
| 133.4 | -0.0464393 | -0.2 | 0.4 | Passed |
| 135.8 | -0.00423241 | -0.2 | 0.4 | Passed |
| 138.6 | -0.0040391 | -0.2 | 0.4 | Passed |
| 141.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 143.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 146.0 | -0.00362025 | -0.2 | 0.4 | Passed |
| 148.7 | -0.00413575 | -0.2 | 0.4 | Passed |
| 151.7 | -0.00423241 | -0.2 | 0.4 | Passed |
| 154.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 157.0 | -0.00378134 | -0.2 | 0.4 | Passed |
| 159.3 | -0.00429685 | -0.2 | 0.4 | Passed |
| 161.9 | -0.00442572 | -0.2 | 0.4 | Passed |
| 164.6 | -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 |
| 113.0 | 20.8248 | 20.8924 | -0.324708 | 10 | Passed |
| 115.2 | 54.9759 | 54.4841 | 0.894513 | 10 | Passed |
| 117.5 | 98.2338 | 97.6564 | 0.587851 | 10 | Passed |
| 119.9 | 139.025 | 139.012 | 0.00925426 | 10 | Passed |
| 122.1 | 139.025 | 139.012 | 0.00989891 | 10 | Passed |
| 124.4 | 139.025 | 139.008 | 0.0125588 | 10 | Passed |
| 126.7 | 139.025 | 139.012 | 0.00991516 | 10 | Passed |
| 129.1 | 127.072 | 127.622 | -0.432576 | 10 | Passed |
| 131.6 | 79.261 | 79.8522 | -0.745827 | 10 | Passed |
| 134.0 | 33.7263 | 34.3884 | -1.963 | 10 | Passed |
| 136.6 | 20.9956 | 21.0657 | -0.333868 | 10 | Passed |
| 139.4 | 20.9956 | 21.0605 | -0.309414 | 10 | Passed |
| 141.7 | 20.9956 | 21.0655 | -0.332992 | 10 | Passed |
| 144.1 | 20.9956 | 21.0623 | -0.317653 | 10 | Passed |
| 146.7 | 40.917 | 41.1227 | -0.502632 | 10 | Passed |
| 149.6 | 95.5587 | 99.5298 | -4.15569 | 10 | Passed |
| 152.3 | 133.694 | 141.5 | -5.83854 | 10 | Passed |
| 155.0 | 133.694 | 141.514 | -5.84886 | 10 | Passed |
| 157.6 | 133.694 | 141.516 | -5.85041 | 10 | Passed |
| 160.0 | 133.694 | 141.517 | -5.85177 | 10 | Passed |
| 162.7 | 95.5587 | 104.889 | -9.76356 | 10 | Passed |
| 165.3 | 46.6088 | 56.157 | -20.4857 | 10 | Failed |

## 测试数据记录

