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, 11:25:56 |
| 测试结束时间 | Thursday, June 15, 2023, 11:27:27 |
| 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 | 261.6 | 281.9 |
| 2 | 测试阶段 | #Action | 282.2 | 345.8 |
| 3 | 停止阶段 | #Cleanup | 345.9 | 345.9 |

## 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 |
| 282.2 | -0.00420019 | -0.2 | 0.4 | Passed |
| 284.5 | 0.381945 | -0.2 | 0.4 | Passed |
| 286.7 | 0.381558 | -0.2 | 0.4 | Passed |
| 288.9 | 0.381687 | -0.2 | 0.4 | Passed |
| 291.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 293.5 | -0.00423241 | -0.2 | 0.4 | Passed |
| 295.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 298.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 300.6 | -0.0684771 | -0.2 | 0.4 | Passed |
| 303.1 | -0.0499189 | -0.2 | 0.4 | Passed |
| 305.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 308.0 | -0.00445794 | -0.2 | 0.4 | Passed |
| 310.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 312.8 | -0.00426463 | -0.2 | 0.4 | Passed |
| 315.2 | -0.0040391 | -0.2 | 0.4 | Passed |
| 317.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 320.4 | -0.0040391 | -0.2 | 0.4 | Passed |
| 322.9 | -0.00413575 | -0.2 | 0.4 | Passed |
| 325.4 | -0.00445794 | -0.2 | 0.4 | Passed |
| 328.1 | -0.00423241 | -0.2 | 0.4 | Passed |
| 330.8 | -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 |
| 282.8 | 20.9956 | 21.0662 | -0.336178 | 10 | Passed |
| 285.1 | 52.111 | 51.6234 | 0.935611 | 10 | Passed |
| 287.3 | 94.2306 | 93.6569 | 0.608825 | 10 | Passed |
| 289.5 | 136.35 | 135.76 | 0.432969 | 10 | Passed |
| 291.8 | 139.006 | 138.992 | 0.0104179 | 10 | Passed |
| 294.1 | 139.006 | 138.994 | 0.00922935 | 10 | Passed |
| 296.5 | 139.006 | 138.993 | 0.00935537 | 10 | Passed |
| 298.9 | 131.607 | 132.158 | -0.418915 | 10 | Passed |
| 301.3 | 86.0723 | 86.6553 | -0.677405 | 10 | Passed |
| 303.7 | 39.3992 | 40.06 | -1.67722 | 10 | Passed |
| 306.2 | 20.9766 | 21.0453 | -0.327758 | 10 | Passed |
| 308.6 | 20.9766 | 21.0463 | -0.332469 | 10 | Passed |
| 311.0 | 20.9766 | 21.0462 | -0.331965 | 10 | Passed |
| 313.4 | 20.9766 | 21.0439 | -0.320709 | 10 | Passed |
| 315.8 | 24.0122 | 22.5357 | 6.14922 | 10 | Passed |
| 318.5 | 75.2388 | 76.3566 | -1.4856 | 10 | Passed |
| 321.1 | 124.189 | 131.194 | -5.64104 | 10 | Passed |
| 323.6 | 134.244 | 142.714 | -6.30887 | 10 | Passed |
| 326.1 | 134.244 | 142.718 | -6.31185 | 10 | Passed |
| 328.9 | 134.244 | 142.719 | -6.31283 | 10 | Passed |
| 331.6 | 119.066 | 131.345 | -10.3127 | 10 | Failed |

## 测试数据记录

