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 | Wednesday, June 7, 2023, 17:59:06 |
| 测试结束时间 | Wednesday, June 7, 2023, 18:00:46 |
| 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 | 241.8 | 262.3 |
| 2 | 测试阶段 | #Action | 262.5 | 326.0 |
| 3 | 停止阶段 | #Cleanup | 326.2 | 326.2 |

## 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 |
| 262.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 265.3 | 0.385231 | -0.2 | 0.4 | Passed |
| 267.8 | 0.384845 | -0.2 | 0.4 | Passed |
| 270.6 | -0.00622999 | -0.2 | 0.4 | Passed |
| 273.2 | -0.00397466 | -0.2 | 0.4 | Passed |
| 275.8 | -0.00426463 | -0.2 | 0.4 | Passed |
| 278.3 | -0.00371691 | -0.2 | 0.4 | Passed |
| 280.9 | -0.0609378 | -0.2 | 0.4 | Passed |
| 283.6 | -0.0654807 | -0.2 | 0.4 | Passed |
| 286.3 | -0.00378134 | -0.2 | 0.4 | Passed |
| 289.1 | -0.00426463 | -0.2 | 0.4 | Passed |
| 291.7 | -0.00436129 | -0.2 | 0.4 | Passed |
| 294.5 | -0.00410353 | -0.2 | 0.4 | Passed |
| 297.2 | -0.0043935 | -0.2 | 0.4 | Passed |
| 300.1 | -0.00420019 | -0.2 | 0.4 | Passed |
| 302.8 | -0.00413575 | -0.2 | 0.4 | Passed |
| 305.6 | -0.00384578 | -0.2 | 0.4 | Passed |
| 308.3 | -0.00449016 | -0.2 | 0.4 | Passed |
| 311.1 | -0.00410353 | -0.2 | 0.4 | Passed |
| 313.9 | -0.00416797 | -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 |
| 263.3 | 13.8049 | 13.8485 | -0.315671 | 10 | Passed |
| 265.9 | 55.9245 | 55.4252 | 0.892838 | 10 | Passed |
| 268.5 | 104.874 | 104.289 | 0.558049 | 10 | Passed |
| 271.2 | 139.025 | 139.015 | 0.00779158 | 10 | Passed |
| 273.8 | 139.025 | 139.016 | 0.00703648 | 10 | Passed |
| 276.4 | 139.025 | 139.017 | 0.00629059 | 10 | Passed |
| 279.0 | 134.092 | 134.651 | -0.416712 | 10 | Passed |
| 281.6 | 85.1426 | 85.7195 | -0.677543 | 10 | Passed |
| 284.3 | 33.916 | 34.5746 | -1.94168 | 10 | Passed |
| 287.2 | 20.8248 | 20.8896 | -0.311163 | 10 | Passed |
| 289.9 | 20.8248 | 20.8921 | -0.322936 | 10 | Passed |
| 292.6 | 20.8248 | 20.8808 | -0.268786 | 10 | Passed |
| 295.3 | 20.8248 | 21.0185 | -0.93003 | 10 | Passed |
| 298.0 | 60.0985 | 62.1148 | -3.355 | 10 | Passed |
| 300.8 | 113.602 | 119.305 | -5.01991 | 10 | Passed |
| 303.5 | 134.092 | 142.072 | -5.95043 | 10 | Passed |
| 306.4 | 134.092 | 142.083 | -5.95869 | 10 | Passed |
| 309.1 | 134.092 | 142.086 | -5.96147 | 10 | Passed |
| 311.9 | 117.396 | 128.938 | -9.83092 | 10 | Passed |
| 314.6 | 65.0125 | 72.0812 | -10.8729 | 10 | Failed |

## 测试数据记录

