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 15, 2023, 17:31:47 |
| 测试结束时间 | Thursday, June 15, 2023, 17:35:54 |
| 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 | 185.9 | 206.1 |
| 2 | 测试阶段 | #Action | 206.3 | 269.9 |
| 3 | 停止阶段 | #Cleanup | 423.8 | 423.8 |

## 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 |
| 206.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 208.7 | 0.384007 | -0.2 | 0.4 | Passed |
| 211.0 | 0.383524 | -0.2 | 0.4 | Passed |
| 213.3 | 0.383459 | -0.2 | 0.4 | Passed |
| 215.5 | -0.00400688 | -0.2 | 0.4 | Passed |
| 217.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 220.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 222.7 | -0.0729233 | -0.2 | 0.4 | Passed |
| 225.1 | -0.0945745 | -0.2 | 0.4 | Passed |
| 227.3 | -0.0889684 | -0.2 | 0.4 | Passed |
| 229.7 | -0.00400688 | -0.2 | 0.4 | Passed |
| 231.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 234.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 236.6 | -0.00416797 | -0.2 | 0.4 | Passed |
| 238.8 | -0.00426463 | -0.2 | 0.4 | Passed |
| 241.3 | -0.00400688 | -0.2 | 0.4 | Passed |
| 243.7 | -0.00426463 | -0.2 | 0.4 | Passed |
| 246.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 248.8 | -0.00397466 | -0.2 | 0.4 | Passed |
| 251.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 253.8 | -0.00407132 | -0.2 | 0.4 | Passed |
| 256.3 | -0.00423241 | -0.2 | 0.4 | Passed |
| 258.8 | -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 |
| 207.0 | 20.9956 | 21.061 | -0.311499 | 10 | Passed |
| 209.4 | 57.0439 | 56.5437 | 0.876789 | 10 | Passed |
| 211.6 | 99.1635 | 98.5793 | 0.589175 | 10 | Passed |
| 213.9 | 139.006 | 138.992 | 0.0101835 | 10 | Passed |
| 216.1 | 139.006 | 138.993 | 0.00934801 | 10 | Passed |
| 218.5 | 139.006 | 138.993 | 0.00961898 | 10 | Passed |
| 221.0 | 139.006 | 138.996 | 0.00716932 | 10 | Passed |
| 223.4 | 123.828 | 124.381 | -0.446344 | 10 | Passed |
| 225.7 | 80.5512 | 81.1413 | -0.732585 | 10 | Passed |
| 227.9 | 37.2932 | 37.9515 | -1.76509 | 10 | Passed |
| 230.3 | 20.9766 | 21.0469 | -0.33515 | 10 | Passed |
| 232.6 | 20.9766 | 21.0437 | -0.32003 | 10 | Passed |
| 234.9 | 20.9766 | 21.0443 | -0.322884 | 10 | Passed |
| 237.2 | 20.9766 | 21.0435 | -0.318743 | 10 | Passed |
| 239.5 | 20.9766 | 20.8651 | 0.531569 | 10 | Passed |
| 241.9 | 61.5784 | 62.5636 | -1.5999 | 10 | Passed |
| 244.5 | 110.528 | 115.89 | -4.8514 | 10 | Passed |
| 247.0 | 133.315 | 142.13 | -6.61241 | 10 | Passed |
| 249.5 | 133.315 | 142.138 | -6.61873 | 10 | Passed |
| 252.1 | 133.315 | 142.14 | -6.61992 | 10 | Passed |
| 254.5 | 133.315 | 142.141 | -6.62109 | 10 | Passed |
| 257.0 | 93.0922 | 101.341 | -8.86084 | 10 | Passed |
| 259.6 | 43.004 | 50.8183 | -18.171 | 10 | Failed |

## 测试数据记录

