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 8, 2023, 16:34:32 |
| 测试结束时间 | Thursday, June 8, 2023, 16:36:13 |
| 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 | 155.5 | 175.8 |
| 2 | 测试阶段 | #Action | 176.0 | 239.6 |
| 3 | 停止阶段 | #Cleanup | 239.7 | 239.8 |

## 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 |
| 176.0 | -0.00452238 | -0.2 | 0.4 | Passed |
| 178.7 | 0.38536 | -0.2 | 0.4 | Passed |
| 181.4 | 0.385135 | -0.2 | 0.4 | Passed |
| 183.9 | -0.00497345 | -0.2 | 0.4 | Passed |
| 186.5 | -0.00423241 | -0.2 | 0.4 | Passed |
| 189.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 192.0 | -0.00423241 | -0.2 | 0.4 | Passed |
| 194.9 | -0.05037 | -0.2 | 0.4 | Passed |
| 197.6 | -0.0564272 | -0.2 | 0.4 | Passed |
| 200.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 202.6 | -0.00449016 | -0.2 | 0.4 | Passed |
| 205.4 | -0.00436129 | -0.2 | 0.4 | Passed |
| 208.3 | -0.0040391 | -0.2 | 0.4 | Passed |
| 211.1 | -0.00426463 | -0.2 | 0.4 | Passed |
| 213.7 | -0.00420019 | -0.2 | 0.4 | Passed |
| 216.2 | -0.00400688 | -0.2 | 0.4 | Passed |
| 218.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 221.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 224.0 | -0.00397466 | -0.2 | 0.4 | Passed |
| 226.7 | -0.00413575 | -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 |
| 176.8 | 20.9956 | 21.059 | -0.302102 | 10 | Passed |
| 179.5 | 63.6844 | 63.1716 | 0.805113 | 10 | Passed |
| 182.1 | 113.773 | 113.184 | 0.517027 | 10 | Passed |
| 184.6 | 139.006 | 138.995 | 0.00828586 | 10 | Passed |
| 187.3 | 139.006 | 138.992 | 0.0104175 | 10 | Passed |
| 190.0 | 139.006 | 138.997 | 0.00706049 | 10 | Passed |
| 192.8 | 129.33 | 129.886 | -0.430059 | 10 | Passed |
| 195.6 | 75.827 | 76.4272 | -0.791591 | 10 | Passed |
| 198.3 | 24.5814 | 25.2315 | -2.64461 | 10 | Passed |
| 200.8 | 20.9766 | 21.0401 | -0.302826 | 10 | Passed |
| 203.4 | 20.9766 | 21.0429 | -0.316254 | 10 | Passed |
| 206.1 | 20.9766 | 21.0406 | -0.305231 | 10 | Passed |
| 209.2 | 20.9766 | 21.07 | -0.445243 | 10 | Passed |
| 211.8 | 65.1832 | 67.752 | -3.94086 | 10 | Passed |
| 214.4 | 114.133 | 120.379 | -5.47238 | 10 | Passed |
| 217.0 | 133.296 | 142.145 | -6.63894 | 10 | Passed |
| 219.5 | 133.296 | 142.158 | -6.64899 | 10 | Passed |
| 222.1 | 133.296 | 142.162 | -6.65153 | 10 | Passed |
| 224.7 | 130.639 | 142.161 | -8.81958 | 10 | Passed |
| 227.5 | 78.2745 | 86.6354 | -10.6816 | 10 | Failed |

## 测试数据记录

