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 | Friday, July 7, 2023, 9:38:11 |
| 测试结束时间 | Friday, July 7, 2023, 9:40:38 |
| 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 | 132.9 | 154.5 |
| 2 | 测试阶段 | #Action | 155.3 | 219.2 |
| 3 | 停止阶段 | #Cleanup | 241.9 | 242.0 |

## 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 |
| 155.5 | -0.00400688 | -0.2 | 0.4 | Passed |
| 158.0 | 0.385715 | -0.2 | 0.4 | Passed |
| 160.6 | 0.385102 | -0.2 | 0.4 | Passed |
| 163.2 | -0.00697102 | -0.2 | 0.4 | Passed |
| 166.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 168.8 | -0.00420019 | -0.2 | 0.4 | Passed |
| 171.7 | -0.0043935 | -0.2 | 0.4 | Passed |
| 174.5 | -0.0641275 | -0.2 | 0.4 | Passed |
| 177.3 | -0.077144 | -0.2 | 0.4 | Passed |
| 179.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 182.6 | -0.00420019 | -0.2 | 0.4 | Passed |
| 185.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 187.8 | -0.00391022 | -0.2 | 0.4 | Passed |
| 190.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 193.0 | -0.00432907 | -0.2 | 0.4 | Passed |
| 195.5 | -0.00413575 | -0.2 | 0.4 | Passed |
| 198.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 200.9 | -0.00365247 | -0.2 | 0.4 | Passed |
| 203.6 | -0.00384578 | -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 |
| 156.2 | 10.4978 | 10.5294 | -0.301114 | 10 | Passed |
| 158.6 | 28.2374 | 27.9864 | 0.888858 | 10 | Passed |
| 161.3 | 53.2814 | 52.988 | 0.550761 | 10 | Passed |
| 163.8 | 69.5032 | 69.4977 | 0.00793373 | 10 | Passed |
| 166.8 | 69.5032 | 69.4974 | 0.00839731 | 10 | Passed |
| 169.7 | 69.5032 | 69.4978 | 0.00774045 | 10 | Passed |
| 172.4 | 64.2857 | 64.5654 | -0.435153 | 10 | Passed |
| 175.4 | 35.817 | 36.1212 | -0.849308 | 10 | Passed |
| 178.0 | 11.3421 | 11.6643 | -2.84113 | 10 | Passed |
| 180.7 | 10.4883 | 10.5204 | -0.306252 | 10 | Passed |
| 183.3 | 10.4883 | 10.5199 | -0.301236 | 10 | Passed |
| 186.0 | 10.4883 | 10.5202 | -0.304245 | 10 | Passed |
| 188.5 | 10.4883 | 10.4293 | 0.562275 | 10 | Passed |
| 191.1 | 29.556 | 30.4624 | -3.06702 | 10 | Passed |
| 193.7 | 54.0309 | 56.6136 | -4.78011 | 10 | Passed |
| 196.4 | 66.7521 | 71.2036 | -6.66859 | 10 | Passed |
| 199.0 | 66.7521 | 71.2073 | -6.67422 | 10 | Passed |
| 201.7 | 66.7521 | 71.2098 | -6.67789 | 10 | Passed |
| 204.4 | 64.2857 | 71.1433 | -10.6675 | 10 | Failed |

## 测试数据记录

