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 | Tuesday, June 13, 2023, 10:45:10 |
| 测试结束时间 | Tuesday, June 13, 2023, 10:47:00 |
| 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 | 311.8 | 332.0 |
| 2 | 测试阶段 | #Action | 332.2 | 395.8 |
| 3 | 停止阶段 | #Cleanup | 395.8 | 395.9 |

## 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 |
| 332.2 | -0.00429685 | -0.2 | 0.4 | Passed |
| 334.9 | 0.386552 | -0.2 | 0.4 | Passed |
| 337.0 | 0.386133 | -0.2 | 0.4 | Passed |
| 339.4 | 0.385908 | -0.2 | 0.4 | Passed |
| 341.8 | -0.00416797 | -0.2 | 0.4 | Passed |
| 344.0 | -0.00400688 | -0.2 | 0.4 | Passed |
| 346.4 | -0.003878 | -0.2 | 0.4 | Passed |
| 348.8 | -0.0570393 | -0.2 | 0.4 | Passed |
| 351.2 | -0.0725044 | -0.2 | 0.4 | Passed |
| 353.5 | -0.0547518 | -0.2 | 0.4 | Passed |
| 356.0 | -0.00394244 | -0.2 | 0.4 | Passed |
| 358.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 360.8 | -0.003878 | -0.2 | 0.4 | Passed |
| 363.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 365.7 | -0.00410353 | -0.2 | 0.4 | Passed |
| 368.3 | -0.00420019 | -0.2 | 0.4 | Passed |
| 370.7 | -0.0040391 | -0.2 | 0.4 | Passed |
| 373.2 | -0.00413575 | -0.2 | 0.4 | Passed |
| 375.8 | -0.00400688 | -0.2 | 0.4 | Passed |
| 378.4 | -0.00394244 | -0.2 | 0.4 | Passed |
| 381.1 | -0.00384578 | -0.2 | 0.4 | Passed |
| 383.8 | -0.00426463 | -0.2 | 0.4 | Passed |
| 386.4 | -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 |
| 333.0 | 20.9956 | 21.0611 | -0.312125 | 10 | Passed |
| 335.4 | 58.7514 | 58.2513 | 0.851203 | 10 | Passed |
| 337.6 | 99.7327 | 99.1481 | 0.586162 | 10 | Passed |
| 339.9 | 139.006 | 138.994 | 0.00900027 | 10 | Passed |
| 342.3 | 139.006 | 138.991 | 0.0108595 | 10 | Passed |
| 344.6 | 139.006 | 138.992 | 0.0105611 | 10 | Passed |
| 347.0 | 139.006 | 138.996 | 0.00757202 | 10 | Passed |
| 349.4 | 121.362 | 121.909 | -0.451167 | 10 | Passed |
| 351.8 | 74.6886 | 75.2941 | -0.81066 | 10 | Passed |
| 354.2 | 30.2922 | 30.9498 | -2.17072 | 10 | Passed |
| 356.6 | 20.9956 | 21.0638 | -0.324996 | 10 | Passed |
| 359.0 | 20.9956 | 21.0675 | -0.342799 | 10 | Passed |
| 361.4 | 20.9956 | 21.0659 | -0.334969 | 10 | Passed |
| 363.9 | 20.9956 | 21.0594 | -0.304197 | 10 | Passed |
| 366.4 | 35.4149 | 32.7263 | 7.59174 | 10 | Passed |
| 369.1 | 85.5221 | 83.0556 | 2.88406 | 10 | Passed |
| 371.4 | 129.918 | 132.342 | -1.86542 | 10 | Passed |
| 374.0 | 137.318 | 142.041 | -3.43974 | 10 | Passed |
| 376.6 | 137.318 | 142.045 | -3.44246 | 10 | Passed |
| 379.2 | 137.318 | 142.048 | -3.44504 | 10 | Passed |
| 381.9 | 115.12 | 120.896 | -5.01728 | 10 | Passed |
| 384.5 | 66.1698 | 68.7233 | -3.85905 | 10 | Passed |
| 387.3 | 15.3227 | 20.4948 | -33.7544 | 10 | Failed |

## 测试数据记录

