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, December 21, 2022, 10:55:46 |
| 测试结束时间 | Wednesday, December 21, 2022, 10:57:35 |
| 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 | 503.4 | 518.6 |
| 2 | 测试阶段 | #Action | 518.9 | 582.4 |
| 3 | 停止阶段 | #Cleanup | 582.5 | 582.5 |

## 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 |
| 518.9 | -0.00442572 | -0.2 | 0.4 | Passed |
| 521.9 | 0.389516 | -0.2 | 0.4 | Passed |
| 524.7 | 0.389259 | -0.2 | 0.4 | Passed |
| 527.5 | -0.00442572 | -0.2 | 0.4 | Passed |
| 530.2 | -0.00413575 | -0.2 | 0.4 | Passed |
| 532.9 | -0.00423241 | -0.2 | 0.4 | Passed |
| 536.5 | -0.16246 | -0.2 | 0.4 | Passed |
| 539.6 | -0.0209541 | -0.2 | 0.4 | Passed |
| 542.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 546.0 | -0.00413575 | -0.2 | 0.4 | Passed |
| 549.3 | -0.00407132 | -0.2 | 0.4 | Passed |
| 552.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 555.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 558.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 561.4 | -0.00423241 | -0.2 | 0.4 | Passed |
| 564.2 | -0.00407132 | -0.2 | 0.4 | Passed |
| 566.9 | -0.00420019 | -0.2 | 0.4 | Passed |
| 569.8 | -0.00423241 | -0.2 | 0.4 | Passed |
| 572.9 | -0.00436129 | -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 |
| 519.8 | 20.9956 | 21.0553 | -0.284316 | 10 | Passed |
| 522.6 | 69.3952 | 68.866 | 0.762547 | 10 | Passed |
| 525.4 | 122.898 | 122.313 | 0.476721 | 10 | Passed |
| 528.2 | 139.025 | 139.018 | 0.00512641 | 10 | Passed |
| 531.0 | 139.025 | 139.023 | 0.00142106 | 10 | Passed |
| 534.2 | 139.025 | 139.022 | 0.00216001 | 10 | Passed |
| 537.5 | 94.2495 | 94.8137 | -0.598598 | 10 | Passed |
| 540.5 | 36.1928 | 36.8433 | -1.79744 | 10 | Passed |
| 543.8 | 20.9956 | 21.0543 | -0.279937 | 10 | Passed |
| 547.2 | 20.9956 | 21.0506 | -0.26198 | 10 | Passed |
| 550.6 | 20.9956 | 21.0527 | -0.272307 | 10 | Passed |
| 553.7 | 46.9883 | 44.0889 | 6.17042 | 10 | Passed |
| 556.5 | 100.492 | 96.8376 | 3.63608 | 10 | Passed |
| 559.2 | 142.801 | 141.11 | 1.18396 | 10 | Passed |
| 562.2 | 142.801 | 141.145 | 1.15931 | 10 | Passed |
| 565.0 | 142.801 | 141.152 | 1.15462 | 10 | Passed |
| 567.9 | 133.125 | 136.769 | -2.7373 | 10 | Passed |
| 570.8 | 78.4832 | 77.7278 | 0.962405 | 10 | Passed |
| 574.2 | 18.7188 | 21.0106 | -12.2431 | 10 | Failed |

## 测试数据记录

