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, 11:07:06 |
| 测试结束时间 | Thursday, June 15, 2023, 11:08:55 |
| 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 | 302.7 | 322.9 |
| 2 | 测试阶段 | #Action | 323.2 | 386.7 |
| 3 | 停止阶段 | #Cleanup | 386.8 | 386.9 |

## 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 |
| 323.2 | -0.00420019 | -0.2 | 0.4 | Passed |
| 324.8 | 0.38333 | -0.2 | 0.4 | Passed |
| 326.5 | 0.382589 | -0.2 | 0.4 | Passed |
| 328.4 | 0.382106 | -0.2 | 0.4 | Passed |
| 330.1 | 0.382138 | -0.2 | 0.4 | Passed |
| 331.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 333.5 | -0.00420019 | -0.2 | 0.4 | Passed |
| 335.2 | -0.00413575 | -0.2 | 0.4 | Passed |
| 337.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 339.6 | -0.0518199 | -0.2 | 0.4 | Passed |
| 341.9 | -0.0832656 | -0.2 | 0.4 | Passed |
| 344.2 | -0.105336 | -0.2 | 0.4 | Passed |
| 346.7 | -0.00416797 | -0.2 | 0.4 | Passed |
| 348.9 | -0.0043935 | -0.2 | 0.4 | Passed |
| 351.2 | -0.00423241 | -0.2 | 0.4 | Passed |
| 353.5 | -0.00407132 | -0.2 | 0.4 | Passed |
| 356.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 358.4 | -0.00420019 | -0.2 | 0.4 | Passed |
| 360.9 | -0.00426463 | -0.2 | 0.4 | Passed |
| 363.5 | -0.00426463 | -0.2 | 0.4 | Passed |
| 366.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 369.1 | -0.00436129 | -0.2 | 0.4 | Passed |
| 371.6 | -0.00413575 | -0.2 | 0.4 | Passed |
| 374.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 376.8 | -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 |
| 323.4 | 20.9766 | 21.0436 | -0.31941 | 10 | Passed |
| 325.1 | 36.724 | 36.2466 | 1.30014 | 10 | Passed |
| 326.9 | 69.7367 | 69.2168 | 0.745479 | 10 | Passed |
| 328.7 | 103.888 | 103.3 | 0.565365 | 10 | Passed |
| 330.4 | 136.919 | 136.33 | 0.430107 | 10 | Passed |
| 332.2 | 139.006 | 138.99 | 0.0120121 | 10 | Passed |
| 333.7 | 139.006 | 138.989 | 0.0127195 | 10 | Passed |
| 335.8 | 139.006 | 138.988 | 0.0129971 | 10 | Passed |
| 337.9 | 139.006 | 138.996 | 0.00736678 | 10 | Passed |
| 340.3 | 122.69 | 123.241 | -0.449337 | 10 | Passed |
| 342.5 | 79.4318 | 80.0286 | -0.75138 | 10 | Passed |
| 344.9 | 33.8971 | 34.5591 | -1.95294 | 10 | Passed |
| 347.3 | 20.9956 | 21.0662 | -0.336639 | 10 | Passed |
| 349.5 | 20.9956 | 21.0637 | -0.324507 | 10 | Passed |
| 351.8 | 20.9956 | 21.0627 | -0.319802 | 10 | Passed |
| 354.2 | 20.9956 | 21.0643 | -0.327142 | 10 | Passed |
| 356.6 | 21.9442 | 20.8168 | 5.13757 | 10 | Passed |
| 359.1 | 68.6173 | 66.0532 | 3.73675 | 10 | Passed |
| 361.7 | 118.705 | 120.484 | -1.49833 | 10 | Passed |
| 364.4 | 137.678 | 142.477 | -3.48549 | 10 | Passed |
| 367.2 | 137.678 | 142.483 | -3.48963 | 10 | Passed |
| 369.7 | 137.678 | 142.485 | -3.49142 | 10 | Passed |
| 372.4 | 123.638 | 131.85 | -6.64122 | 10 | Passed |
| 375.1 | 73.5313 | 76.6432 | -4.23217 | 10 | Passed |
| 377.6 | 24.5814 | 30.4992 | -24.074 | 10 | Failed |

## 测试数据记录

