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, June 28, 2023, 10:33:39 |
| 测试结束时间 | Wednesday, June 28, 2023, 10:35:23 |
| 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 | 3616.7 | 3637.0 |
| 2 | 测试阶段 | #Action | 3637.3 | 3700.8 |
| 3 | 停止阶段 | #Cleanup | 3701.0 | 3701.0 |

## 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 |
| 3637.4 | -0.00407132 | -0.2 | 0.4 | Passed |
| 3640.6 | 0.386584 | -0.2 | 0.4 | Passed |
| 3643.4 | 0.385811 | -0.2 | 0.4 | Passed |
| 3645.8 | -0.00410353 | -0.2 | 0.4 | Passed |
| 3648.4 | -0.00381356 | -0.2 | 0.4 | Passed |
| 3651.0 | -0.00416797 | -0.2 | 0.4 | Passed |
| 3653.7 | -0.0392222 | -0.2 | 0.4 | Passed |
| 3656.3 | -0.102855 | -0.2 | 0.4 | Passed |
| 3659.0 | -0.0263669 | -0.2 | 0.4 | Passed |
| 3661.6 | -0.00400688 | -0.2 | 0.4 | Passed |
| 3664.6 | -0.00400688 | -0.2 | 0.4 | Passed |
| 3667.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 3670.8 | -0.00420019 | -0.2 | 0.4 | Passed |
| 3673.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 3676.6 | -0.00374913 | -0.2 | 0.4 | Passed |
| 3679.3 | -0.00397466 | -0.2 | 0.4 | Passed |
| 3682.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 3684.6 | -0.00410353 | -0.2 | 0.4 | Passed |
| 3687.1 | -0.00394244 | -0.2 | 0.4 | Passed |
| 3689.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 3692.2 | -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 |
| 3638.1 | 20.9766 | 21.0468 | -0.334718 | 10 | Passed |
| 3641.5 | 76.9464 | 76.4098 | 0.697257 | 10 | Passed |
| 3644.0 | 124.758 | 124.167 | 0.47366 | 10 | Passed |
| 3646.5 | 138.987 | 138.972 | 0.0111528 | 10 | Passed |
| 3649.1 | 138.987 | 138.973 | 0.0105289 | 10 | Passed |
| 3651.7 | 138.987 | 138.974 | 0.00958047 | 10 | Passed |
| 3654.2 | 125.896 | 126.446 | -0.436694 | 10 | Passed |
| 3657.1 | 71.2545 | 71.8691 | -0.862544 | 10 | Passed |
| 3659.7 | 22.3047 | 22.9509 | -2.89717 | 10 | Passed |
| 3662.4 | 20.9766 | 21.0472 | -0.336567 | 10 | Passed |
| 3665.5 | 20.9766 | 21.0466 | -0.333618 | 10 | Passed |
| 3668.8 | 20.9766 | 21.0431 | -0.316965 | 10 | Passed |
| 3671.6 | 35.9651 | 33.189 | 7.71888 | 10 | Passed |
| 3674.3 | 87.1917 | 84.4541 | 3.13974 | 10 | Passed |
| 3677.5 | 138.798 | 141.838 | -2.19067 | 10 | Passed |
| 3680.3 | 138.798 | 141.856 | -2.20341 | 10 | Passed |
| 3682.7 | 138.798 | 141.858 | -2.20496 | 10 | Passed |
| 3685.3 | 138.798 | 141.86 | -2.20642 | 10 | Passed |
| 3687.8 | 101.99 | 105.355 | -3.29934 | 10 | Passed |
| 3690.3 | 53.0217 | 56.9935 | -7.49094 | 10 | Passed |
| 3692.9 | 13.5582 | 20.5571 | -51.621 | 10 | Failed |

## 测试数据记录

