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, 12:44:28 |
| 测试结束时间 | Wednesday, June 28, 2023, 12:47:35 |
| 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 | 6340.8 | 6361.1 |
| 2 | 测试阶段 | #Action | 6361.3 | 6424.8 |
| 3 | 停止阶段 | #Cleanup | 6505.7 | 6505.8 |

## 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 |
| 6361.3 | -0.003878 | -0.2 | 0.4 | Passed |
| 6362.9 | 0.387487 | -0.2 | 0.4 | Passed |
| 6364.6 | 0.38652 | -0.2 | 0.4 | Passed |
| 6366.3 | 0.386037 | -0.2 | 0.4 | Passed |
| 6368.1 | 0.385876 | -0.2 | 0.4 | Passed |
| 6369.8 | -0.003878 | -0.2 | 0.4 | Passed |
| 6371.5 | -0.003878 | -0.2 | 0.4 | Passed |
| 6373.3 | -0.00368469 | -0.2 | 0.4 | Passed |
| 6375.0 | -0.003878 | -0.2 | 0.4 | Passed |
| 6376.8 | -0.00394244 | -0.2 | 0.4 | Passed |
| 6378.7 | -0.0851987 | -0.2 | 0.4 | Passed |
| 6380.5 | -0.0569105 | -0.2 | 0.4 | Passed |
| 6382.4 | -0.0362903 | -0.2 | 0.4 | Passed |
| 6384.4 | -0.00384578 | -0.2 | 0.4 | Passed |
| 6386.2 | -0.00381356 | -0.2 | 0.4 | Passed |
| 6387.9 | -0.00384578 | -0.2 | 0.4 | Passed |
| 6391.0 | -0.00420019 | -0.2 | 0.4 | Passed |
| 6393.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 6396.9 | -0.00416797 | -0.2 | 0.4 | Passed |
| 6399.7 | -0.00397466 | -0.2 | 0.4 | Passed |
| 6402.8 | -0.00429685 | -0.2 | 0.4 | Passed |
| 6405.7 | -0.00374913 | -0.2 | 0.4 | Passed |
| 6408.8 | -0.00371691 | -0.2 | 0.4 | Passed |
| 6412.1 | -0.0040391 | -0.2 | 0.4 | Passed |
| 6415.4 | -0.00407132 | -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 |
| 6361.6 | 20.9956 | 21.0608 | -0.310792 | 10 | Passed |
| 6363.2 | 35.9841 | 35.4991 | 1.3478 | 10 | Passed |
| 6364.9 | 67.8584 | 67.3363 | 0.769419 | 10 | Passed |
| 6366.6 | 99.7517 | 99.1679 | 0.585224 | 10 | Passed |
| 6368.4 | 135.041 | 134.453 | 0.435265 | 10 | Passed |
| 6370.1 | 139.025 | 139.013 | 0.00922714 | 10 | Passed |
| 6371.9 | 139.025 | 139.013 | 0.00864631 | 10 | Passed |
| 6373.6 | 139.025 | 139.013 | 0.00911355 | 10 | Passed |
| 6375.3 | 139.025 | 139.016 | 0.00676945 | 10 | Passed |
| 6377.2 | 139.025 | 139.016 | 0.00678228 | 10 | Passed |
| 6379.1 | 108.859 | 109.41 | -0.506462 | 10 | Passed |
| 6381.0 | 72.4308 | 73.0415 | -0.843111 | 10 | Passed |
| 6382.9 | 36.0031 | 36.6597 | -1.82384 | 10 | Passed |
| 6384.7 | 20.8248 | 20.894 | -0.332179 | 10 | Passed |
| 6386.6 | 20.8248 | 20.8906 | -0.315736 | 10 | Passed |
| 6389.0 | 20.8248 | 20.8939 | -0.331731 | 10 | Passed |
| 6391.9 | 20.8248 | 20.8895 | -0.310496 | 10 | Passed |
| 6394.9 | 23.8605 | 22.4409 | 5.94957 | 10 | Passed |
| 6397.7 | 78.5021 | 76.4528 | 2.61058 | 10 | Passed |
| 6400.7 | 134.282 | 134.203 | 0.058711 | 10 | Passed |
| 6403.6 | 137.887 | 141.73 | -2.78739 | 10 | Passed |
| 6406.7 | 137.887 | 141.735 | -2.79059 | 10 | Passed |
| 6409.9 | 135.041 | 141.721 | -4.94677 | 10 | Passed |
| 6413.2 | 72.4308 | 76.6772 | -5.86272 | 10 | Passed |
| 6416.3 | 14.3741 | 22.9272 | -59.5043 | 10 | Failed |

## 测试数据记录

