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 |

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| --- | --- |
| 测试开始时间 | Monday, February 13, 2023, 13:43:35 |
| 测试结束时间 | Monday, February 13, 2023, 13:44:58 |
| 操作员 | administrator |
| UUT编号 | 1 |
| 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 | 1921.4 | 1936.5 |
| 2 | 测试阶段 | #Action | 1936.7 | 2000.3 |
| 3 | 停止阶段 | #Cleanup | 2000.4 | 2000.5 |

## 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 |
| 1936.8 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1939.4 | 0.390193 | -0.2 | 0.4 | Passed |
| 1941.8 | 0.390161 | -0.2 | 0.4 | Passed |
| 1944.5 | -0.00500567 | -0.2 | 0.4 | Passed |
| 1947.4 | -0.00365247 | -0.2 | 0.4 | Passed |
| 1949.8 | -0.00436129 | -0.2 | 0.4 | Passed |
| 1952.6 | -0.0040391 | -0.2 | 0.4 | Passed |
| 1955.3 | -0.0462137 | -0.2 | 0.4 | Passed |
| 1958.1 | -0.0653196 | -0.2 | 0.4 | Passed |
| 1960.7 | -0.003878 | -0.2 | 0.4 | Passed |
| 1963.6 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1966.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 1969.2 | -0.00391022 | -0.2 | 0.4 | Passed |
| 1971.9 | -0.00445794 | -0.2 | 0.4 | Passed |
| 1974.6 | -0.00429685 | -0.2 | 0.4 | Passed |
| 1977.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 1980.0 | -0.00384578 | -0.2 | 0.4 | Passed |
| 1982.7 | -0.00426463 | -0.2 | 0.4 | Passed |
| 1985.6 | -0.00416797 | -0.2 | 0.4 | Passed |
| 1988.4 | -0.00400688 | -0.2 | 0.4 | Passed |
| 1991.2 | -0.00429685 | -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 |
| 1937.6 | 20.9956 | 21.0596 | -0.304812 | 10 | Passed |
| 1940.1 | 62.3563 | 61.8389 | 0.829675 | 10 | Passed |
| 1942.5 | 109.029 | 108.444 | 0.537115 | 10 | Passed |
| 1945.3 | 139.006 | 139.004 | 0.00139203 | 10 | Passed |
| 1948.0 | 139.006 | 139.002 | 0.00331581 | 10 | Passed |
| 1950.5 | 139.006 | 138.999 | 0.00499239 | 10 | Passed |
| 1953.4 | 131.607 | 132.168 | -0.426331 | 10 | Passed |
| 1956.3 | 75.827 | 76.4261 | -0.790167 | 10 | Passed |
| 1958.9 | 26.8771 | 27.5226 | -2.40151 | 10 | Passed |
| 1961.6 | 20.9956 | 21.0552 | -0.284002 | 10 | Passed |
| 1964.5 | 20.9956 | 21.0581 | -0.297888 | 10 | Passed |
| 1967.3 | 20.9956 | 21.0564 | -0.289649 | 10 | Passed |
| 1970.0 | 20.9956 | 20.9073 | 0.420205 | 10 | Passed |
| 1972.7 | 68.6173 | 66.2165 | 3.49889 | 10 | Passed |
| 1975.4 | 119.863 | 121.398 | -1.28045 | 10 | Passed |
| 1978.1 | 138.266 | 141.522 | -2.35463 | 10 | Passed |
| 1980.8 | 138.266 | 141.536 | -2.36457 | 10 | Passed |
| 1983.5 | 138.266 | 141.541 | -2.36859 | 10 | Passed |
| 1986.4 | 116.068 | 122.19 | -5.27418 | 10 | Passed |
| 1989.2 | 62.565 | 64.5295 | -3.14003 | 10 | Passed |
| 1992.0 | 15.8919 | 20.9542 | -31.855 | 10 | Failed |

## 测试数据记录

