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| **Project** | DAI\_MMA |
| **Module** | MMG |
| **Test Object** | MMG\_runAutotestCall100ms |

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| --- | --- | --- |
| **Instrumentation: Test object only** | | |
| **Statement (C0) Coverage** | 100 % |  |
| **Branch (C1) Coverage** | 100 % |  |

**Statistics**

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| --- | --- | --- |
| **Total Testcases** | 5 |  |
| **Successful** | 5 |  |
| **Failed** | 0 |  |
| **Not Executed** | 0 |  |

**Module Properties**

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| --- | --- |
| **Project Root Directory** | C:\Projects\DAIMLER\_MMA\Phase\_02\View\_Development\Tools\Tessy\Workspace |
| **Configuration File** | $(PROJECTROOT)\tessy\config\configuration.xml |
| **Target Environment** | GNU GCC Eclipse CDT (Default) |
| **Kind of Test** | Unit Test |
| **Linker Options** |  |
| **Source Root Directory** | S:\Components\Application\Autoliv |
| | **Source File(s)** |  | | --- | --- | | **File** | |  |  |  |  | | --- | --- | --- | --- | | $(SOURCEROOT)\MMG\Implementation\src\MMG.c | Revision: 1.1.7.25 |  |  | | | **Compiler Options** | -IS:\Tools\Tasking\Installation\TASKING\_TriCore\_v6.3r1p2\backup\_patch2\ctc\include -I$(SOURCEROOT)\..\Supplier\DaVinci\_generated -I$(SOURCEROOT)\..\Supplier\\_Common -I$(SOURCEROOT)\..\Supplier\Adc -I$(SOURCEROOT)\..\Supplier\AdcIf -I$(SOURCEROOT)\..\Supplier\BswM -I$(SOURCEROOT)\..\Supplier\Can -I$(SOURCEROOT)\..\Supplier\CanIf -I$(SOURCEROOT)\..\Supplier\CanNm -I$(SOURCEROOT)\..\Supplier\CanSM -I$(SOURCEROOT)\..\Supplier\CanTp -I$(SOURCEROOT)\..\Supplier\CanTSyn -I$(SOURCEROOT)\..\Supplier\Com -I$(SOURCEROOT)\..\Supplier\ComM -I$(SOURCEROOT)\..\Supplier\Crc -I$(SOURCEROOT)\..\Supplier\CryIf -I$(SOURCEROOT)\..\Supplier\Crypto\_30\_LibCv -I$(SOURCEROOT)\..\Supplier\Crypto\_30\_vHsm -I$(SOURCEROOT)\..\Supplier\Csm -I$(SOURCEROOT)\..\Supplier\Dcm -I$(SOURCEROOT)\..\Supplier\Dem -I$(SOURCEROOT)\..\Supplier\Det -I$(SOURCEROOT)\..\Supplier\Dio -I$(SOURCEROOT)\..\Supplier\Dma -I$(SOURCEROOT)\..\Supplier\E2E -I$(SOURCEROOT)\..\Supplier\E2EXf -I$(SOURCEROOT)\..\Supplier\EcuM -I$(SOURCEROOT)\..\Supplier\Fee -I$(SOURCEROOT)\..\Supplier\Fls\_17\_Dmu -I$(SOURCEROOT)\..\Supplier\Gpt -I$(SOURCEROOT)\..\Supplier\Hwl\Sfr\TC33xA\\_Reg -I$(SOURCEROOT)\..\Supplier\Icu\_17\_TimerIp -I$(SOURCEROOT)\..\Supplier\IpduM -I$(SOURCEROOT)\..\Supplier\KeyM -I$(SOURCEROOT)\..\Supplier\Mcal\_Tc3xx -I$(SOURCEROOT)\..\Supplier\McalLib -I$(SOURCEROOT)\..\Supplier\Mcu -I$(SOURCEROOT)\..\Supplier\MemIf -I$(SOURCEROOT)\..\Supplier\Nm -I$(SOURCEROOT)\..\Supplier\NvM -I$(SOURCEROOT)\..\Supplier\Os -I$(SOURCEROOT)\..\Supplier\PduR -I$(SOURCEROOT)\..\Supplier\Port -I$(SOURCEROOT)\..\Supplier\Pwm -I$(SOURCEROOT)\..\Supplier\PwmIf -I$(SOURCEROOT)\..\Supplier\SBC -I$(SOURCEROOT)\..\Supplier\SecOC -I$(SOURCEROOT)\..\Supplier\Spi -I$(SOURCEROOT)\..\Supplier\Ssa -I$(SOURCEROOT)\..\Supplier\Startup -I$(SOURCEROOT)\..\Supplier\StbM -I$(SOURCEROOT)\..\Supplier\Stm -I$(SOURCEROOT)\..\Supplier\vSecPrim -I$(SOURCEROOT)\..\Supplier\VStdLib -I$(SOURCEROOT)\..\Supplier\Wdg\_17\_Scu -I$(SOURCEROOT)\..\Supplier\WdgIf -I$(SOURCEROOT)\..\Supplier\WdgM -I$(SOURCEROOT)\MMG\Implementation\inc -I$(PROJECTROOT)\Stubs -I$(SOURCEROOT)\NVP\Implementation\inc | |  |  | | |

| **Interface** | | |
| --- | --- | --- |
| **Element** | **Passing** | **Target Passing** |
| **External Functions** |  |  |
| void PAL\_Autotest\_CheckMotorThermalProctection(u8TestResultType \*) |  |  |
| **External Variables** |  |  |
| unsigned char Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | OUT |  |
| **Global Variables** |  |  |
| unsigned char MMG\_u8ATLocalResult[7] | IN |  |
| unsigned char MMG\_u8ErrorCounter[7] | INOUT |  |
|  |  |  |

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| **Usercode**   |  | | --- | | **Stub Functions** | | **PAL\_Autotest\_CheckMotorThermalProctection**  $stub void PAL\_Autotest\_CheckMotorThermalProctection(u8TestResultType \*) {  $case 1.1 {  \*pu8TestResult = KU8\_ATM\_TEST\_NOT\_DECIDED;  }  $case 2.1 {  \*pu8TestResult = KU8\_ATM\_TEST\_OK;  }  $case 3.1 {  \*pu8TestResult = KU8\_ATM\_TEST\_NOK;  }  $case 3.2 {  \*pu8TestResult = KU8\_ATM\_TEST\_NOK;  }  $case 4.1 {  \*pu8TestResult = KU8\_ATM\_TEST\_OK;  }  $case 4.2 {  \*pu8TestResult = KU8\_ATM\_TEST\_OK;  }  $case 5.1 {  \*pu8TestResult = KU8\_ATM\_TEST\_OK;  }  } | |  | |

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| |  |  | | --- | --- | | **Test Case 1: AAUT\_MMG\_0001** | Result: OK |  |  |  | | --- | --- | | **Specification** | COVERS : DSG\_MMG\_0012 | | **Description** | Check Motor Thermal protection autotest NOT DECIDED |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | **Test Step 1.1 (Repeat Count = 1): Case Test result NOT DECIDED** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x00 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x00 | 0x00 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 0 | 0 |  | |  |  |  | | --- | --- | | **Test Case 2: AAUT\_MMG\_0002** | Result: OK |  |  |  | | --- | --- | | **Specification** | COVERS : DSG\_MMG\_0012 | | **Description** | Check Motor Thermal protection autotest OK |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | **Test Step 2.1 (Repeat Count = 1): Case Test result OK - first time** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x00 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x00 | 0x00 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 1 | KU8\_ATM\_TEST\_OK (1) |  | |  |  |  | | --- | --- | | **Test Case 3: AAUT\_MMG\_0003** | Result: OK |  |  |  | | --- | --- | | **Specification** | COVERS : DSG\_MMG\_0012; DSG\_MMG\_0014 | | **Description** | Check Motor Thermal protection autotest NOK |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | **Test Step 3.1 (Repeat Count = 1): Case Test result NOK - first time** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x00 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x01 | 0x01 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 0 | 0 |  |  |  |  | | --- | --- | |  |  | | **Test Step 3.2 (Repeat Count = 1): Case Test result NOK - second time** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x01 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x01 | 0x01 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 2 | KU8\_ATM\_TEST\_NOK (2) |  | |  |  |  | | --- | --- | | **Test Case 4: AAUT\_MMG\_0004** | Result: OK |  |  |  | | --- | --- | | **Specification** | COVERS : DSG\_MMG\_0012; DSG\_MMG\_0013; | | **Description** | Check Motor Thermal Protection autotest OK with debounce |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | **Test Step 4.1 (Repeat Count = 1): Case Test result OK - after NOK** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x01 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x00 | 0x00 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 0 | 0 |  |  |  |  | | --- | --- | |  |  | | **Test Step 4.2 (Repeat Count = 1): Case Test result OK - second time** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x00 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x00 | 0x00 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 1 | KU8\_ATM\_TEST\_OK (1) |  | |  |  |  | | --- | --- | | **Test Case 5: AAUT\_MMG\_0005** | Result: OK |  |  |  | | --- | --- | | **Specification** | COVERS : DSG\_MMG\_0012 | | **Description** | Check Motor Thermal Protection OK - default values |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | **Test Step 5.1 (Repeat Count = 1): Case Test result OK - default state help test** |  |      | **Name** | **Input Value** | | --- | --- | | MMG\_u8ATLocalResult[2] | KU8\_ATM\_TEST\_NOT\_DECIDED (4) | | MMG\_u8ErrorCounter[2] | 0x00 |      | **Name** | **Actual Value** | **Expected Value** | **Result** | | --- | --- | --- | --- | | MMG\_u8ErrorCounter[2] | 0x00 | 0x00 |  | | Rte\_Irv\_MMG\_u8CheckMotorThermalProctectionResult | 1 | KU8\_ATM\_TEST\_OK (1) |  | | |