| MSU 3.1 Failure Codes | | |
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| **FAILURE LEDS** | **FAILURE CODES** | **DESCRIPTION** |
|  | | It indicates that there is an alarm in the system. If it flashes, the alarm is still active. If it is continously lit, the alarm is not active. It is off when the alarm is cleared. |
|  | F11<br>F12 | F11 is displayed when there is low/high frequency alarm.<br>This alarm is active when the alternator frequency value is less than “P065: Generator Under Frequency” or more than “P066: Generator Over Frequency”,<br>F12 is displayed when there is low/high engine rpm alarm.<br>This alarm is active when the engine rpm value is less than “P072: Engine Under RPM” or more than “P071: Engine Over RPM”. |
|  | F10 | It indicates there is high/low alternator voltage alarm when the voltage value is less than or more than the set values (see : P058: Generator Under Voltage, P059: Generator Over Voltage) |
|  | F15 | It indicates Engine Failed to Stop / Failed to Start alarm.<br>In automatic mode, after there is mains failure, this alarm is displayed if the engine does not start after cranking “P002: Crank Attempts“.<br>Another alarm source is : If one of “Running Feedback signals is still active after AMF releases fuel valve and attempts to stop the engine. |
|  | F24 | It indicates “Overcurrent” alarm. This alarm is indicated when the total current is more than “P272: Over Current Failure Value”. |
|  | F18 | It indicates “Charging Voltage Alarm”. F18 is displayed when the charging voltage is less than or more than the set values (see P079: Charge Alternator Under Voltage and P080: Charge Alternator Over Voltage) while the engine is running. |
|  | F16<br>F25 | It indicates “Low Oil Pressure Alarm”.<br>F16 is displayed when the digital input set as Oil Pressure Switch becomes active while the engine is running.<br>In case oil pressure sender is used, F25 is displayed when the oil pressure value is less than “P89: Analog Low Oil Pressure Value” while the engine is running. |
|  | F21 | It indicates “Low Coolant Level Value Alarm”. F21 is displayed when the digital input set for Coolant Level Switch becomes active. |
|  | F17<br>F51 | It indicates “High Water Temperature Alarm”.<br>F17 is displayed when the digital input set for Water Temperature Switch becomes active.<br>In case Analog Temperature Sensor is used, F51 is displayed when the temperature is more than “P150: High Temperature (Flexible Sensor) Warning”. |
|  | F20 | It indicates “Low Battery Voltage Alarm”.<br>F20 is displayed when the battery voltage is less than or more than the set values. (see: P47: Battery Voltage Failure Lower Limit, P48: Battery Voltage Failure Upper Limit). |

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|  | F42 | It indicates “Generator Circuit Breaker Feedback Failure Alarm”.<br>F42 is displayed when the digital input set for GCB Contact Feedback does not become active after the breaker is energized. |
|  | F44 | It indicates “Emergency Stop Alarm”. F44 is displayed when the digital input set for Emergency Stop becomes active. |
|  | | It indicates “Maintenance Time Passed” alarm.<br>This LED is lit when “P329: Periodic Engine Maintenance Timer Set Value and “P330: Periodic Maintenance Timer Value expire. |
|  | F31 | It indicates “Aux. Failure Input 1 Alarm”.<br>This alarm is active when the digital input set for External Alarm Input 1 becomes active. |
|  | F32 | It indicates “Aux. Failure Input 2 Alarm”.<br>This alarm is active when the digital input set for External Alarm Input 2 becomes active. |
|  | F33 | It indicates “Aux. Failure Input 3 Alarm”.<br>This alarm is active when the digital input set for External Alarm Input 3 becomes active. |
|  | F34 | It indicates “Aux. Failure Input 4 Alarm”.<br>This alarm is active when the digital input set for External Alarm Input 4 becomes active. |
| **Only Indicated on the LED Display** | F26 | It indicates “High KW Alarm”.<br>This alarm is active when the measured kW value is equal to or more than P277: KW Failure Value. |
| **Only Indicated on the LED Display** | F27 | It indicates “High KVA Alarm”.<br>This alarm is active when the measured kVA value is equal to or more than P292: KVA Alarm Value. |
| **Only Indicated on the LED Display** | F28 | It indicates “High KVAR Alarm”.<br>This alarm is active when the measured kVAR value is equal to or more than P282-KVar Failure Value. |
| **Only Indicated on the LED Display** | F29 | It indicates “High KW Alarm”.<br>This alarm is active when the measured Power Factor value is equal to or more than P287: Power Factor Failure Value. |
| **Only Indicated on the LED Display** | F38 | It indicates “Seismic Alarm.”<br>This alarm is active when the digital input set for Earthquake Sensor becomes active. |
| **Only Indicated on the LED Display** | F46 | It indicates “Oil Pressure Sensor Failure Alarm”.<br>When there is a oil pressure sensor, the reason of the failure may be that the sensor has failed, been damaged or been removed. |
| **Only Indicated on** | F47 | It indicates “Temperature Sensor Failure Alarm”.<br>When there is a temperature sensor, the reason of the failure may be that the sensor |

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| **the LED Display** | | has failed, been damaged or been removed. |
| **Only Indicated on the LED Display** | F50 | Generator Self-start Alarm:<br>If the engine is started by an external source other than AMF 3.4, an alarm will NOT be signaled. However if the engine is attempted to start when the AMF is in AUTO or TEST operation modes while the engine is already running, this alarm will be activated. |