

#### 106 - Generator G Temp - NM72, NM82, V82



Enable generator temperature control functionality in software.

**Does this solve the problem?**

- 1] Yes
- 2] No
- 3] I don't know

#### • Explanation

If a Winergy generator is installed in the turbine, it may be in the affected population of [CIM 1945](#) and if approved, generator temperature control functionality can be enabled. Check with your local Engineering department to verify that it is okay to implement this functionality and to develop a customer communication plan as well as an operation plan for the generator (i.e. does the generator need to be replaced, can it run with temp control enabled, is it a candidate for fan+pump upgrade etc.).

Check the news on [CIM 1945](#) for more information regarding the fan and pump upgrade status which is currently being tested.

The generator temp control function can ONLY be enabled on Winergy generators approved by the Engineering Department.

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Bleed air from system

**Does this solve the problem?**

- 1] Yes
- 2] No
- 3] I don't know

#### • Explanation

Start the generator coolant pump from the control panel listen for abnormal noise.

Check the pressure on the gauge at the pump, the pressure must be 2bar +/- 0.2 bar. If the system pressure is too high, bleed down the pressure by opening the petcock and drain fluid into the attached cup until the pressure is within the correct range.

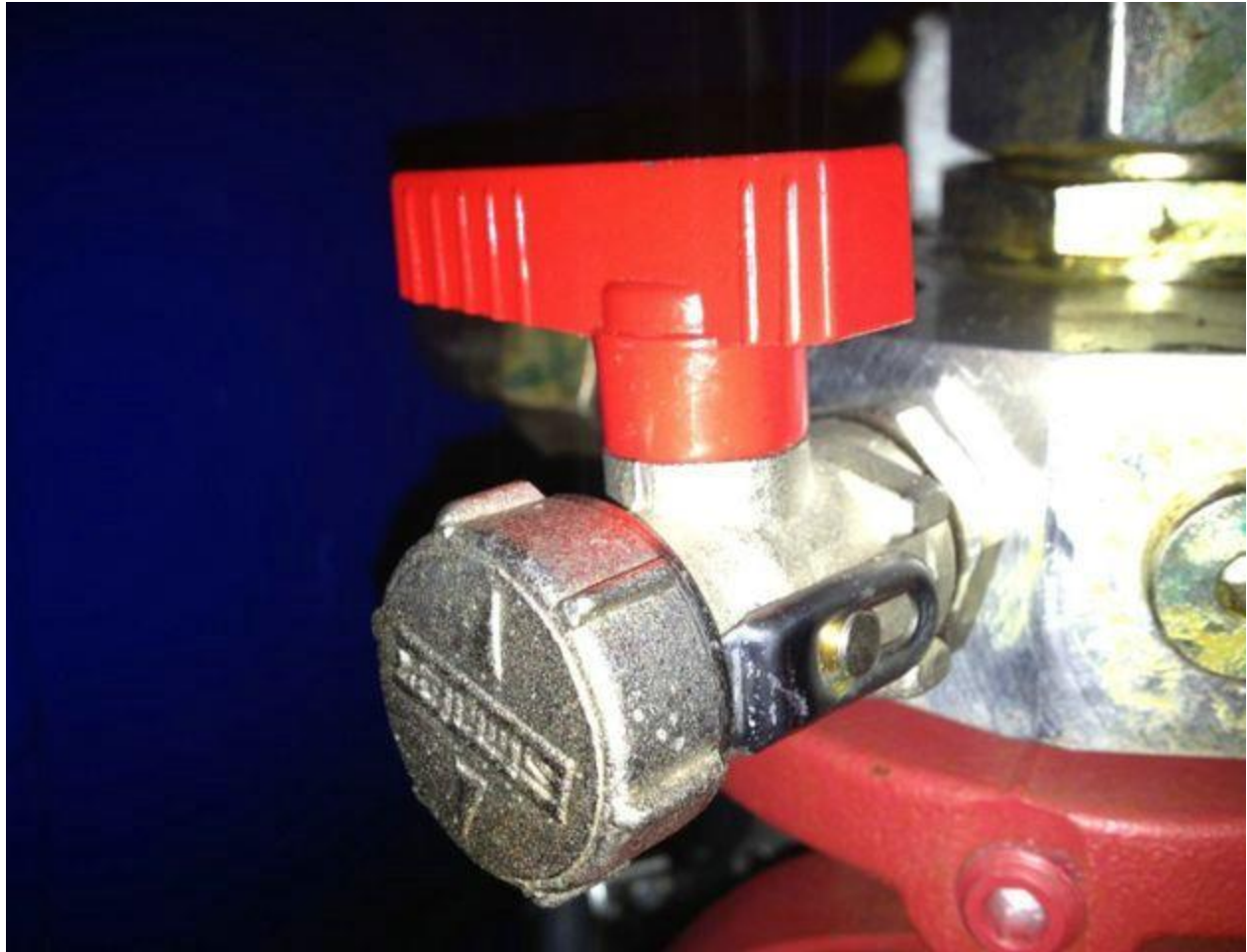
Drain pet cock on coolant pump:



If the pressure is too low, add coolant and increase pressure using T2887300 - PRESSURE TEST PUMP TP-50 POWER

Fit the hose from the TP-50 pump onto the inlet valve, open the valve on the TP-50 and open the valve on the generator coolant pump. Begin pumping the TP-50 until the pressure in the system is within the correct range.

Fitting on generator coolant pump:



TP-50 hand pump:



There is a breather on the top of the generator radiator, loosen the plastic cap on top by turning it clockwise but do not remove. Listen for air escaping the system, once the air is released turn the plastic cap clockwise hand tight.

If no air escapes, loosen the breather but do not remove. If air escapes, replace the breather: Item number [60062613](#)  
- Breather for Hydac water-to-air cooler

Breather



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Test/Change faulty PT100 sensor(s)

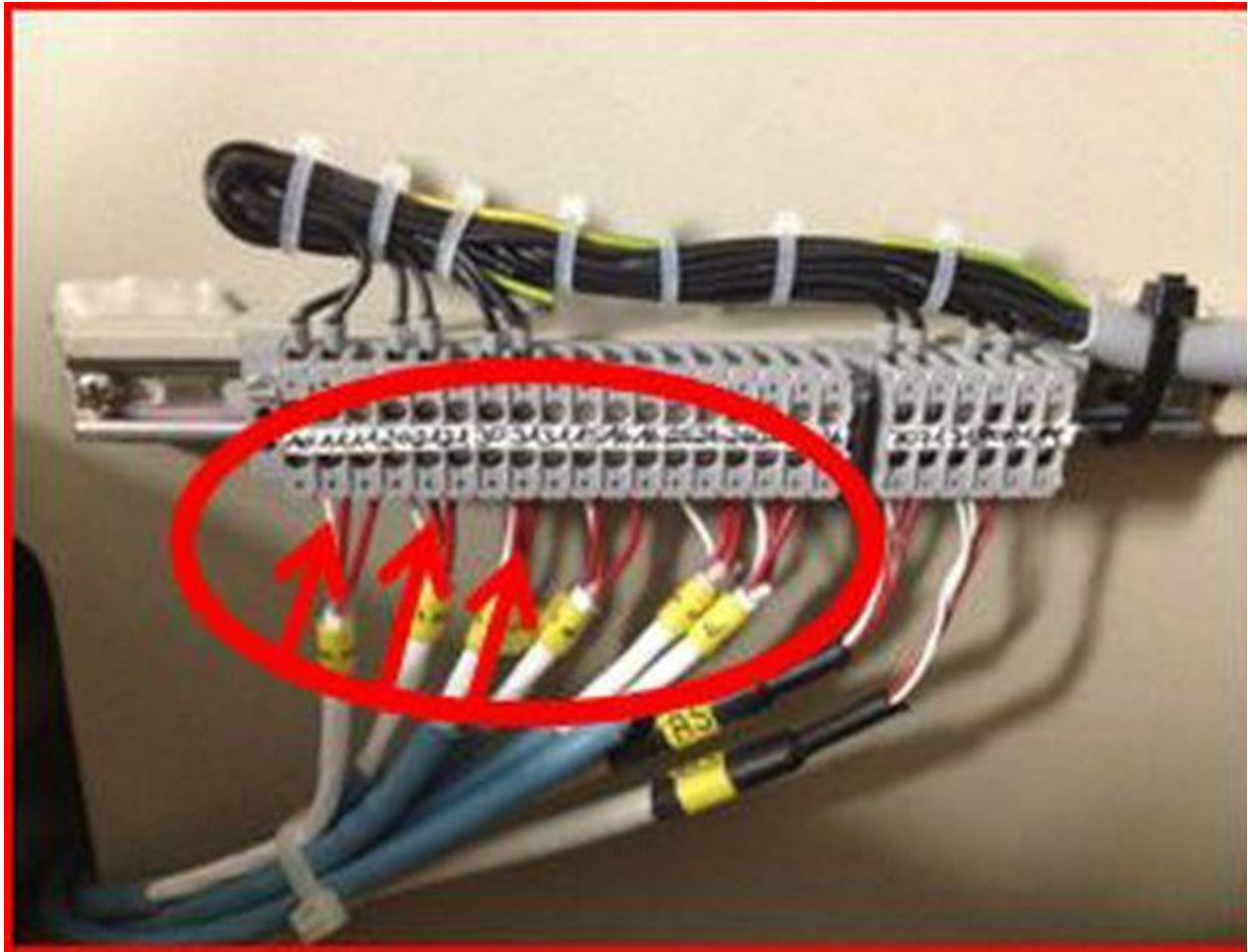
**Does this solve the problem?**

- 1] Yes
- 2] No
- 3] I don't know

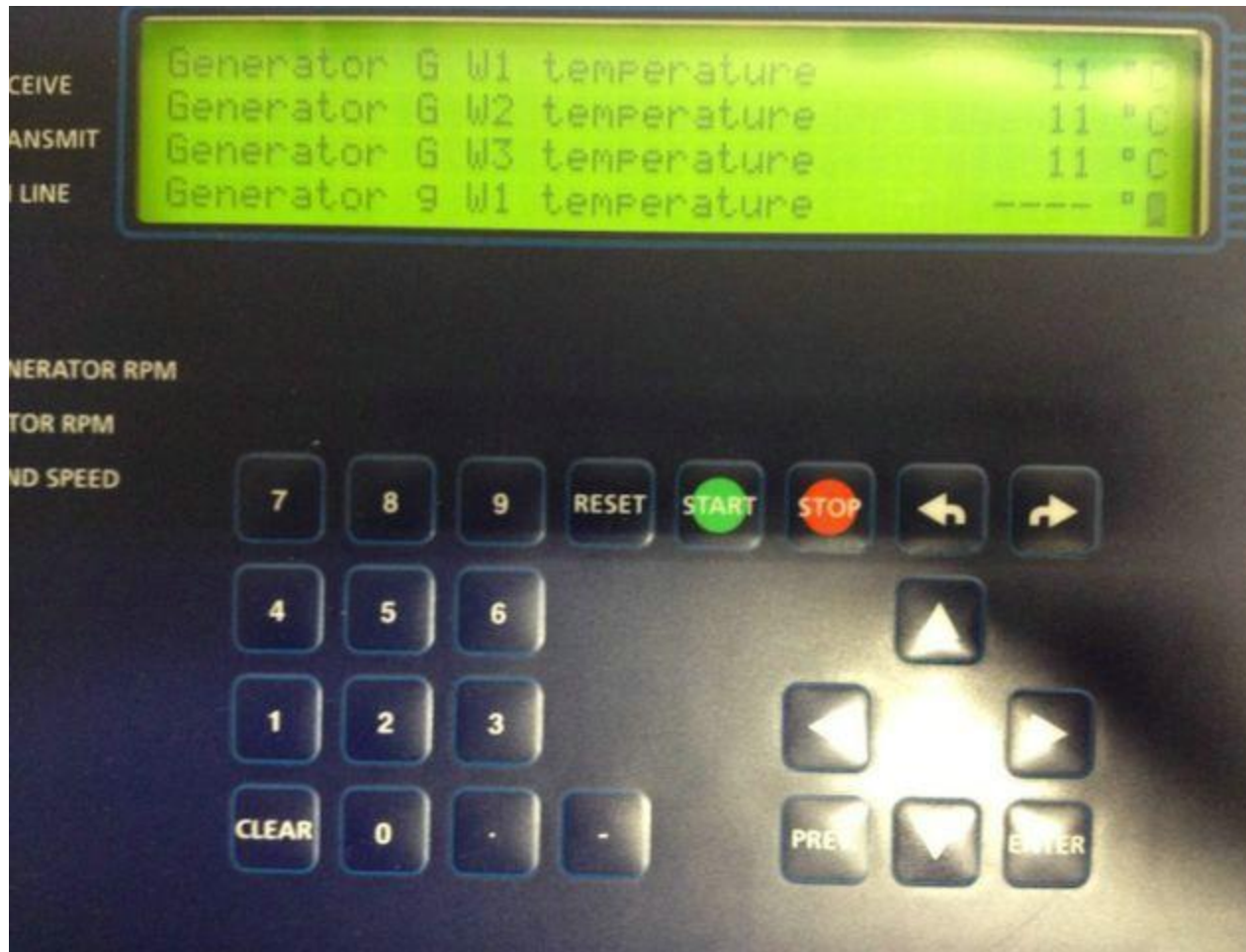
- [Explanation](#)

Winding PT100 sensors cannot be replaced in the field, however the generator is equipped with redundant sensors for all windings. Sensors can be tested in the generator junction box.





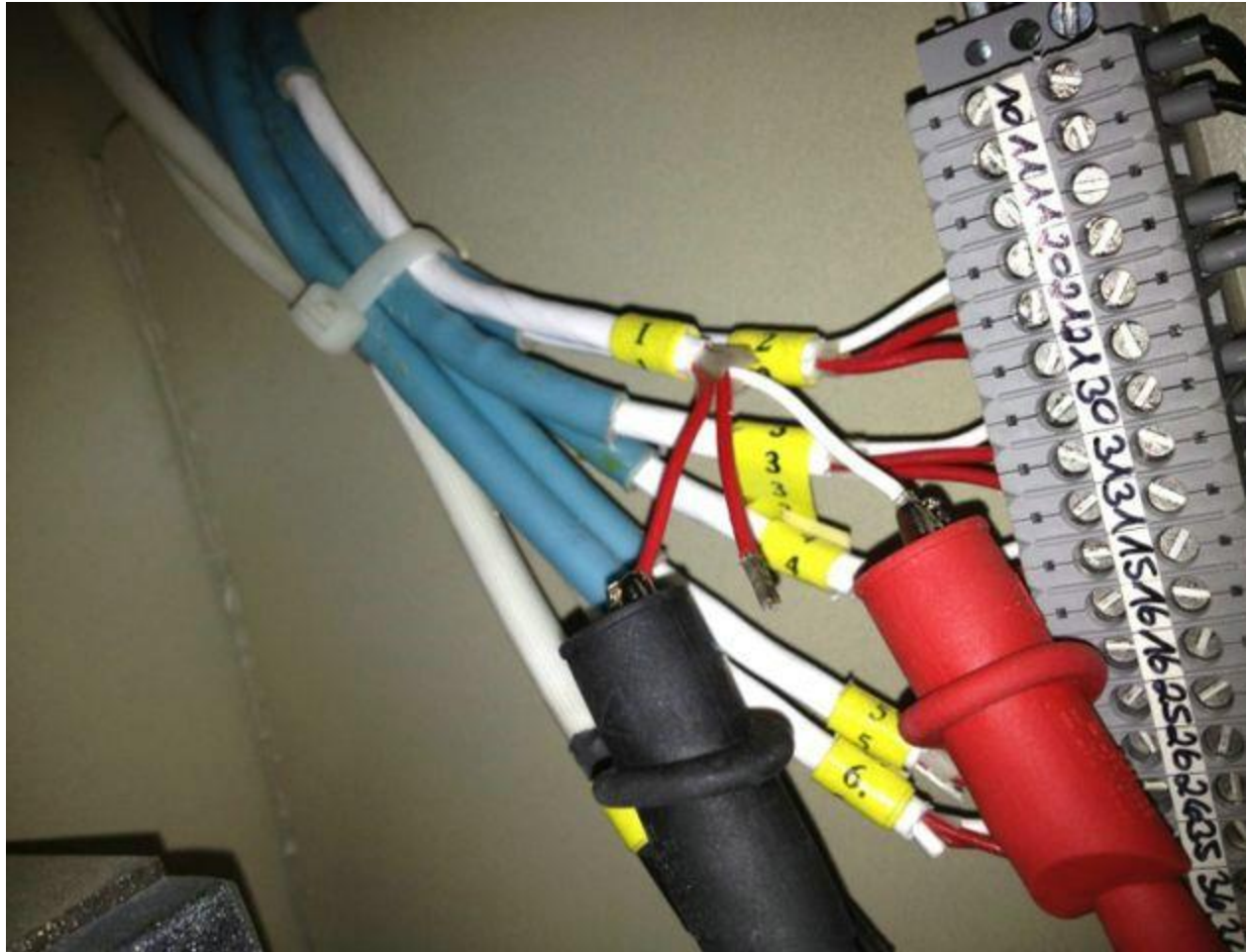
In the TAC controller, look at the individual winding temperatures in the temperature menu.



If one of the winding temperatures is unreal, it could be affecting the average of the three and cause this alarm. Test the sensor at the generator junction box.







Connect a multi-meter to the PT100 wires in the generator junction box.



With the multi-meter set to read  $\Omega$ , check the resistance value against the resistance/temperature conversion chart.  
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Change the faulty TOI-2 Tower, Water pump motor and Contactor

**Does this solve the problem?**

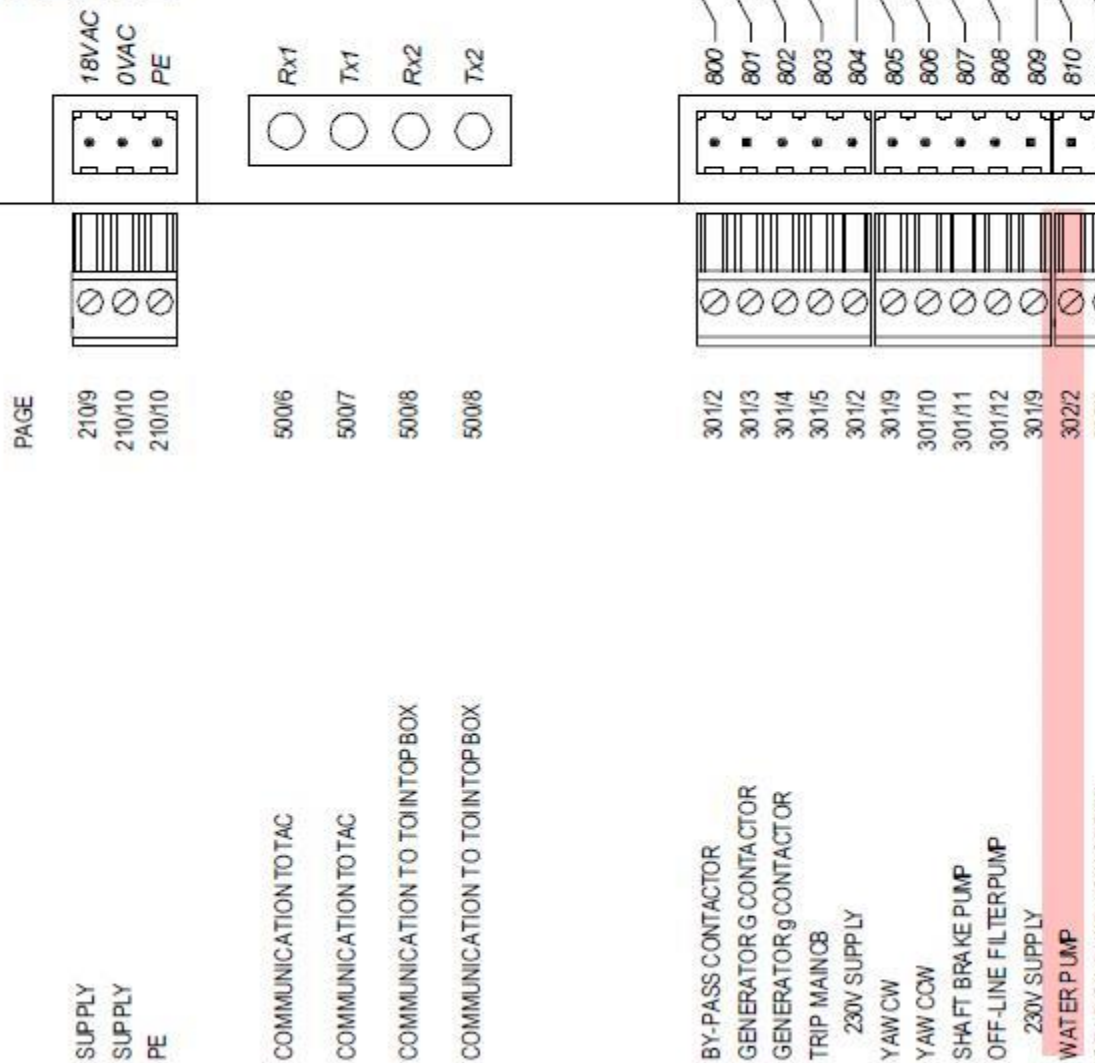
- 1] Yes
- 2] No
- 3] I don't know

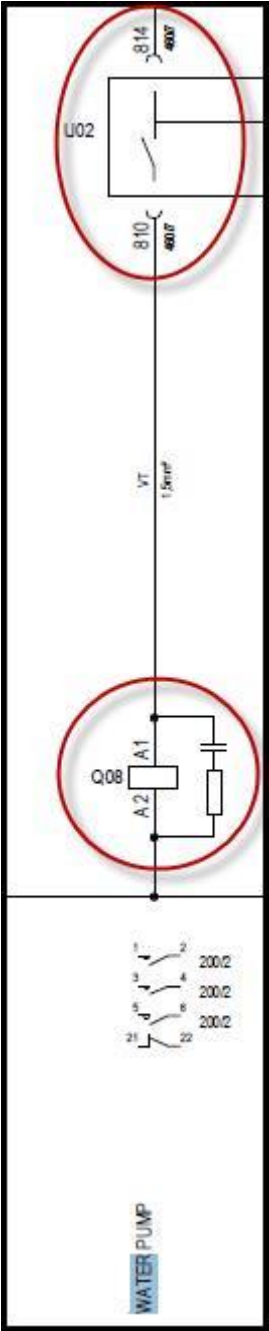
- **Explanation**

Check all three winding temperature at controller, if the temperature equal and raised gradually, Test the motor operation thru the controller test mode function, if the motor not run check .

**AT2 Cabinet** Check the TOI-2 Tower out put 810 Water pump, if there is no out put while testing change the TOI-2 tower Check the motor contactor Q8/K04 coil supply and terminal outputs and if there is not output change the contactor.

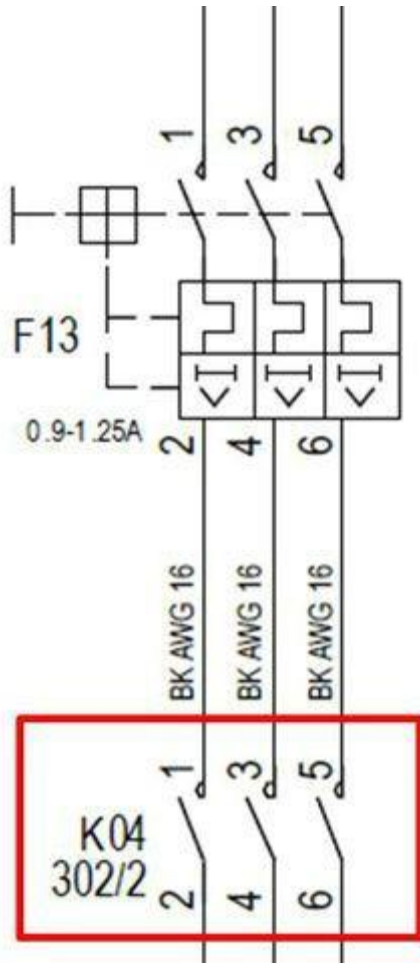
# TOI 2 OUTPUT INTERFACE



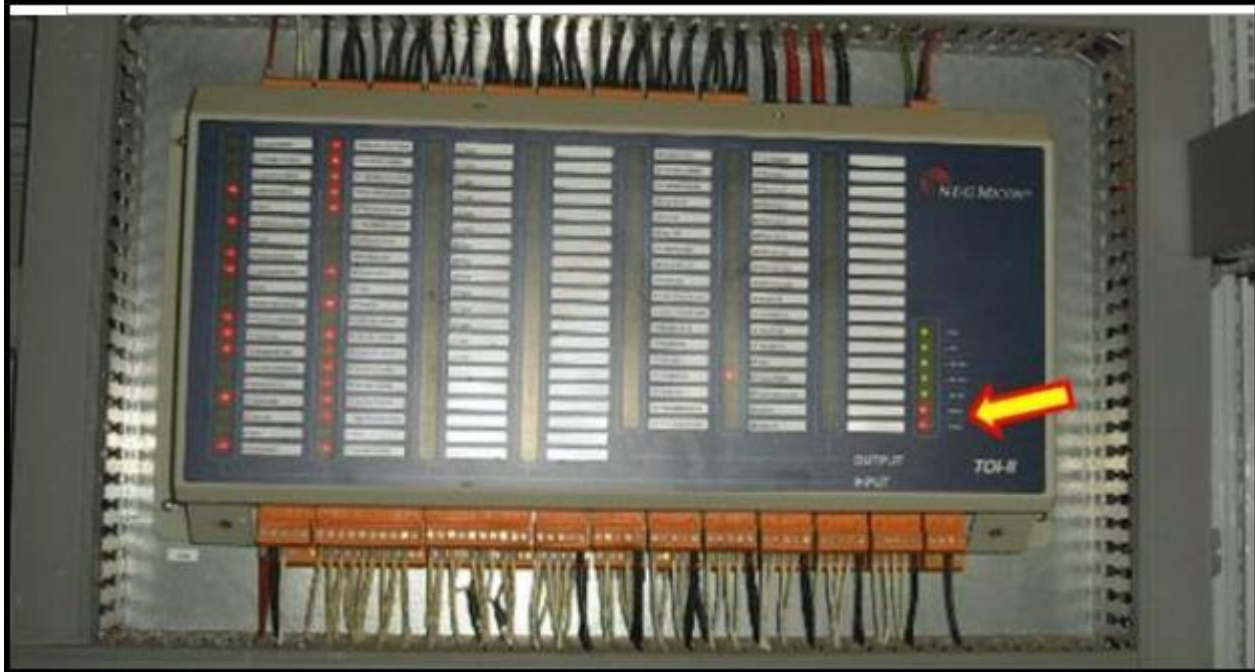


60 Hz





Part Number for TOI unit:  
[51701501](#) TOI-II INTERF NM1500 TOWER



Part number for motor contactor Q8  
[60004394](#) - CONTACTOR 3RT1016-1AP02 230V 50/60Hz



**At Nacelle** Check input voltage to the motor (M06) and supply voltage present but motor not run, stop the test function disconnect the supply voltage and check the winding continuity, if the motor winding opened, the breaker will not trip since single phase circuit not closed. No fault current flow. Change the motor.  
 Motor item code:

[60061710](#) - MOTOR WATER PUMP UPS40-180F  
Water pump motor replacement SWI - [0023-9289](#)



