Inspect/troubleshoot panel fans

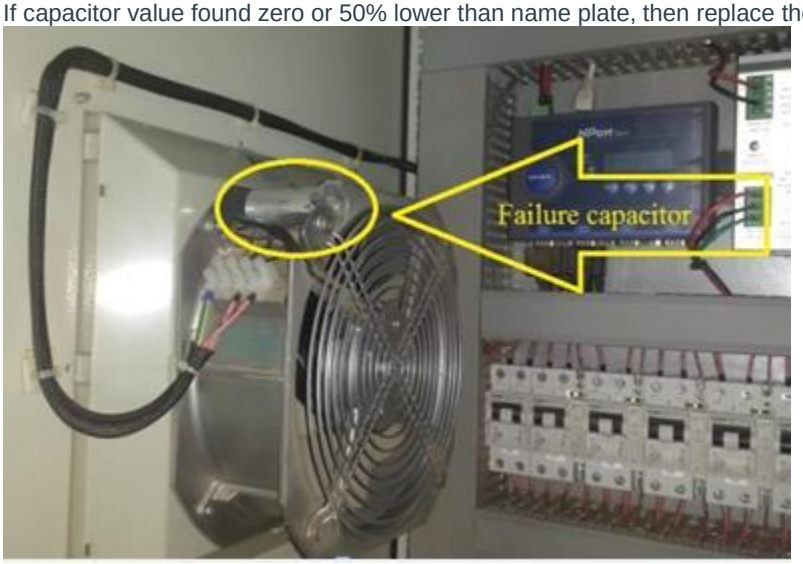
Does this solve the problem?

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

- **Explanation**

Manually operate the panel fans through the TAC Controller from the manual test menu.

If a fan is not operational, check that the supply is present at the fan and check the healthiness of the capacitor.
If capacitor value found zero or 50% lower than name plate, then replace the capacitor



Relevant spare parts	
Description	**Item No.**
CAPACITOR 2.5UF 400V	29058241

The panel fans as well as the heater fans are supplied by the same 230VAC source.

If there is a fault in the power source circuit, both panel fans and heater fans will not operate. If a panel fan is found to be faulty, replace the failed fan

Relevant spare parts	
Description	**Item No.**
FAN 500M3/H 230V – 50Hz	60014655
VENTILATION FAN 230V 500M3/H – 60Hz	60110934

Inspect/replace filters

Does this solve the problem?

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

- **Explanation**

Inspect the AT3 panel filters. If the filters are dirty or clogged, replace them.

Relevant spare parts	
Description	**Item No.**
FILTER EXH 323x323x25MM (Filter with frame)	60014668
FILTER PAD FINE 500-700M3/H (Filter without frame)	60097176
VENTI OUTLET FILTER 3326.207 - MKV(60Hz)	092048

Troubleshoot/replace PT100

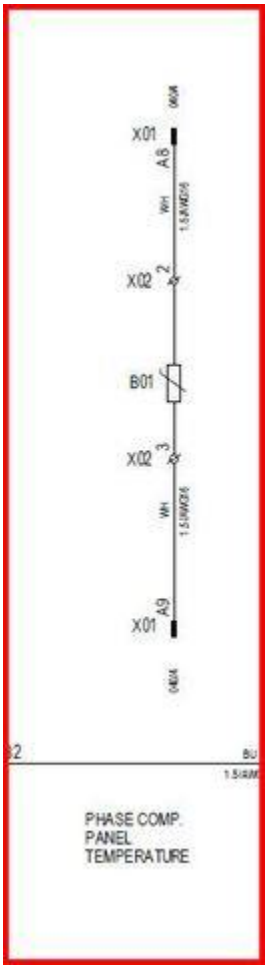
Does this solve the problem?

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

- **Explanation**

Note the AT3 panel temperature reading in the TAC Controller.

Remove the PT100 wire connections from X02 terminals 2 & 3.



Use a multimeter to measure resistance across the wires, convert the resistance in Ohms to °c using the PT100 Temperature chart (DMS 0039-6203).

Relevant documentation	
Description	**DMS No.**
PT100 Resistance/Temperature chart	0039-6203

Compare the value to that taken from the turbine controller.

If the value matches that of the controller (or it is realistic and the controller value is not) the sensor is likely good.

If the measured value from the PT100 is unreal, the sensor has failed and must be replaced.

Relevant spare parts	
Description	**Item No.**
PT100 180-4-2M Ø6x60mm	60009279

Check and tighten all terminal connections in the PT100 circuit

Does this solve the problem?

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

- **Explanation**

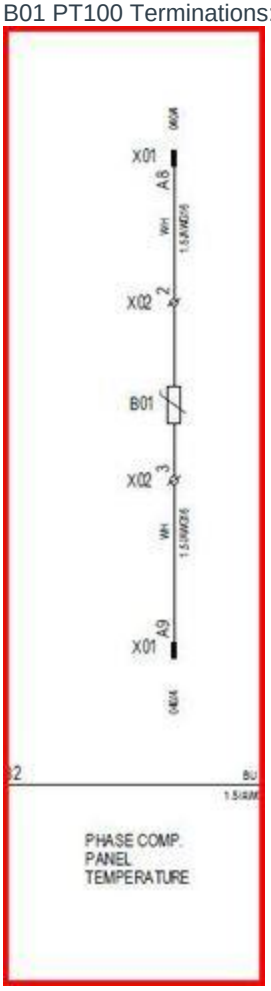
  Remove the X-01 plug from the AT3.

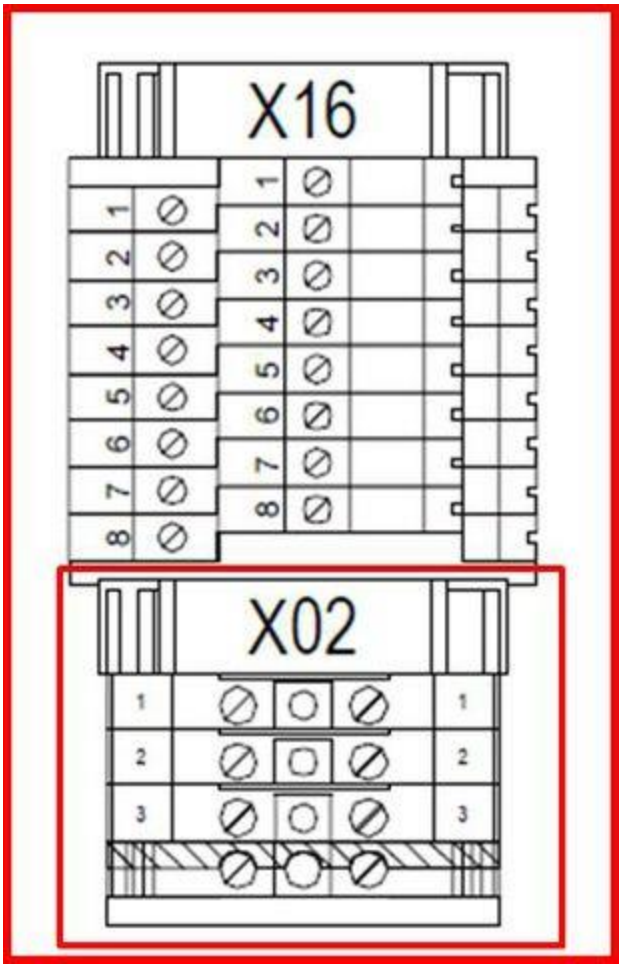
  Remove the plug cover and inspect the wire terminations for loose connections (AT3 Temperature sensor B01 wires are terminated at pins A8 & A9).

Inspect the wires and pins in the interior cabinet side of the plug.

Inspect the wire terminations at terminal block X02 2 & 3.

B01 PT100 Terminations:





Repair any loose connections found.

Remove the X-06 plug from the AT2.

Remove the plug cover and inspect the wire terminations for loose connections (AT3 Temperature sensor B01 wires are terminated at pins A8 & A9).

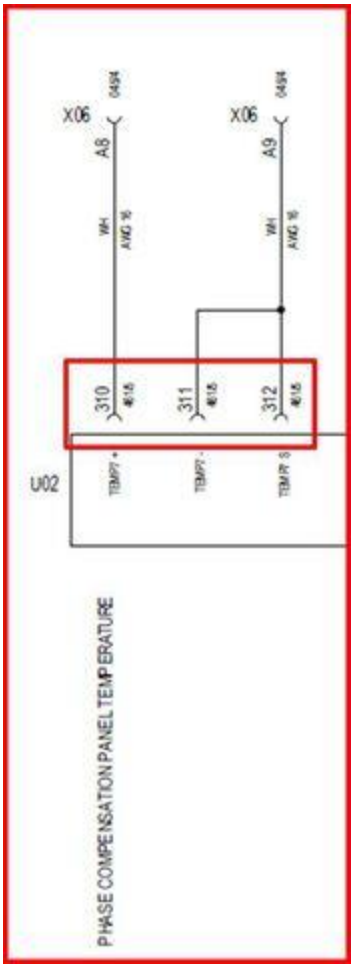
Check and tighten the PT100 connections at the TOI

Does this solve the problem?

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

- **Explanation**

Check the TOI Input and Output Connection in terminal 301, 311, 312.



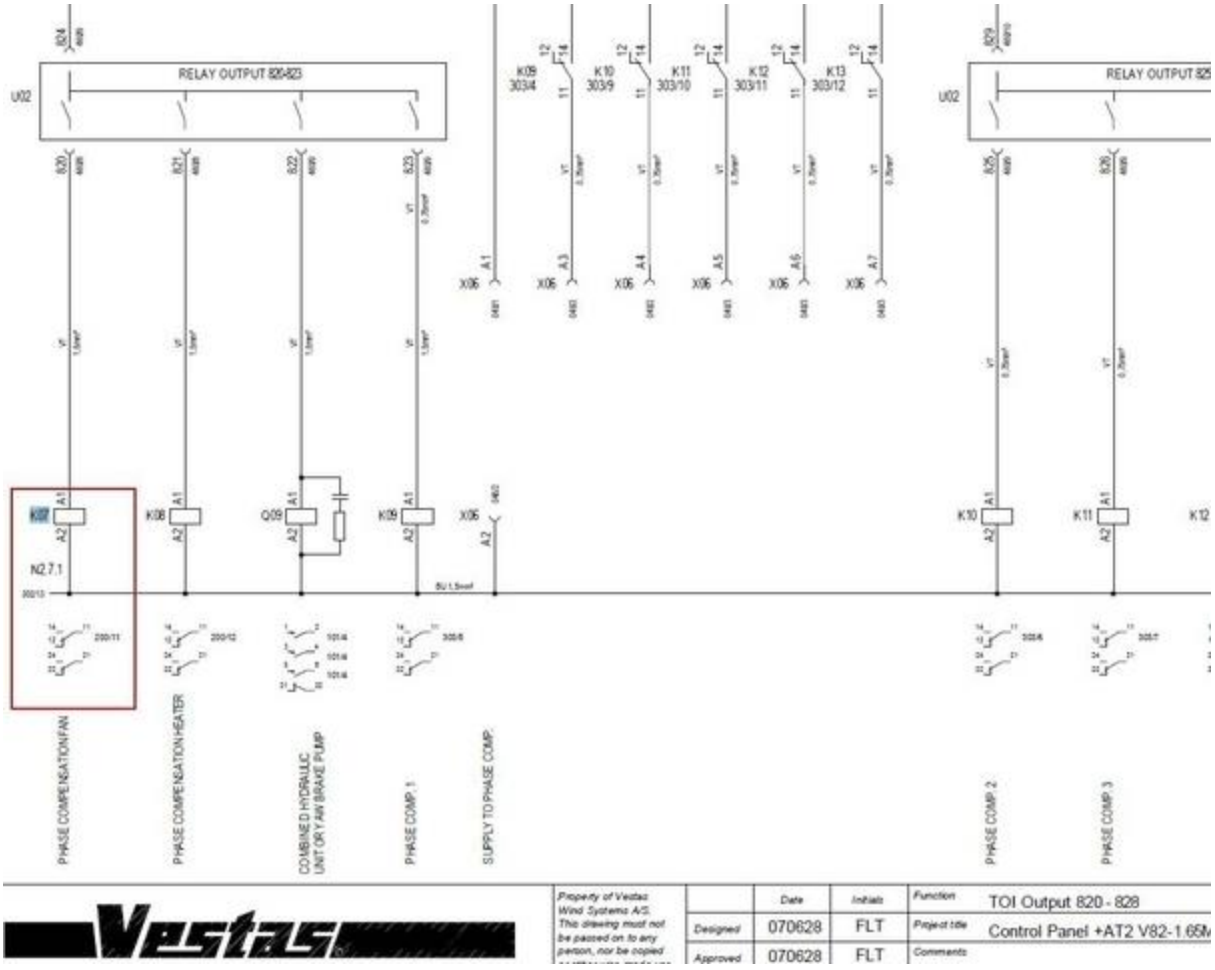
Replace Relay K07 if defect

Does this solve the problem?

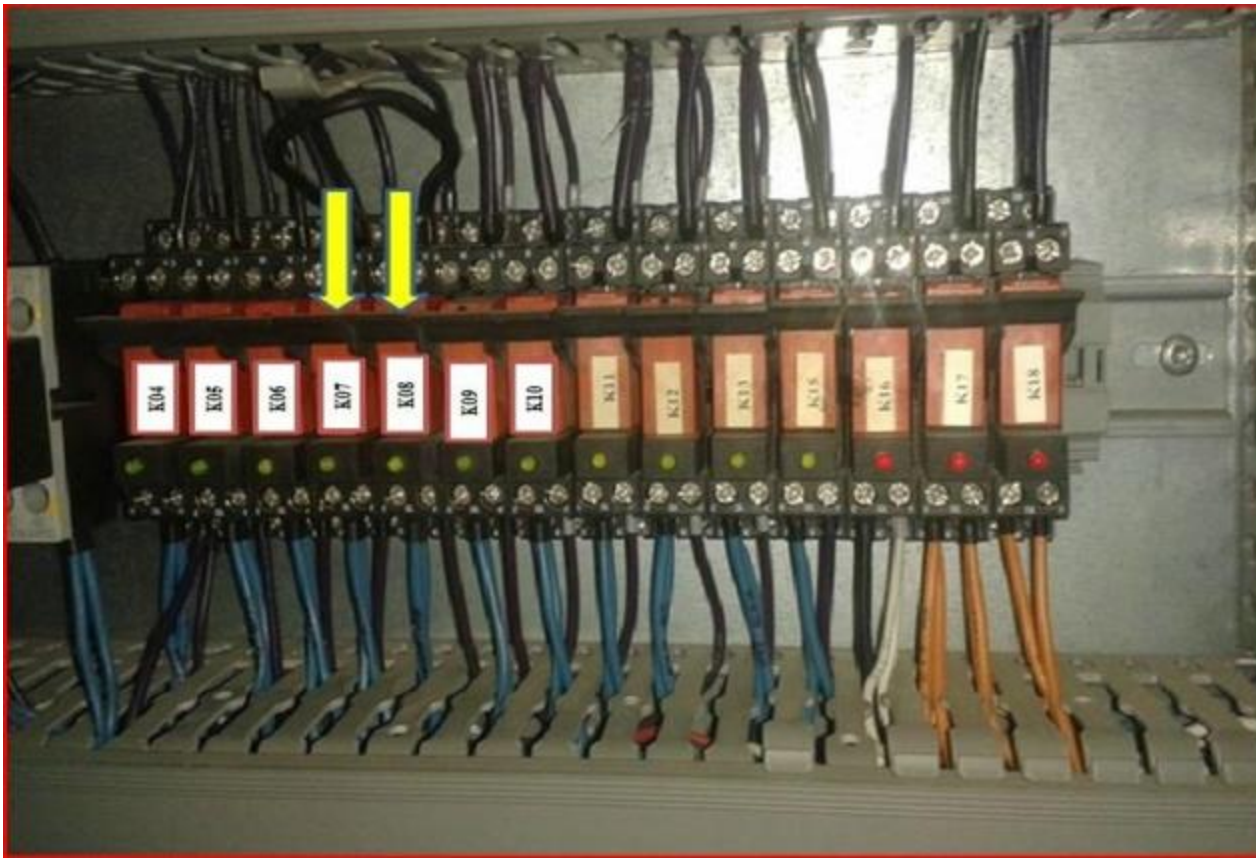
1] Yes
2] No
3] I don't know

- **Explanation**

  Check the loose connection in terminal A1, A2 at K07



Relay K07 may not engaged after Signal is high
(820 @ U02 TOI Tower interface).Check the LED indication LED with signal 820 in U02.



Replace the relay K07, if it is not functioning.

Relevant spare parts	
Description	**Item No.**
RELAY RT424730 8A 230V 2P	60004512
DIODE MODULE RPMG0730 110-230V	60004519