

Replace the defect MCB

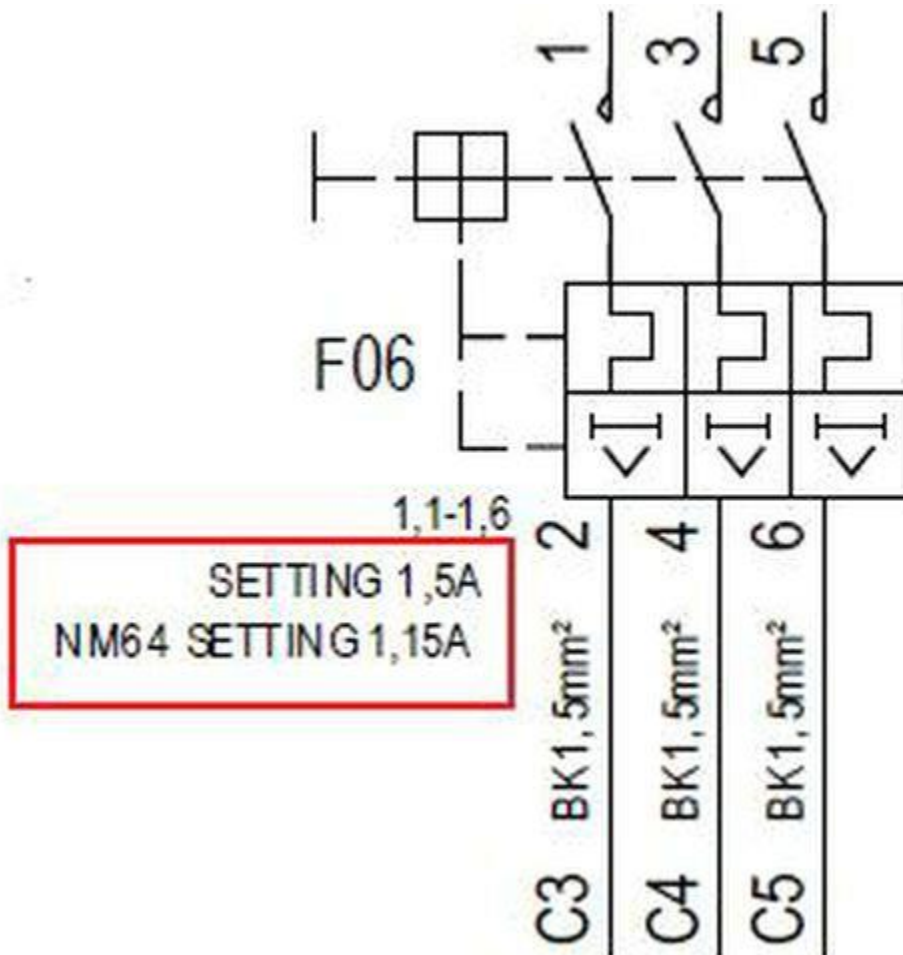
Does this solve the problem?

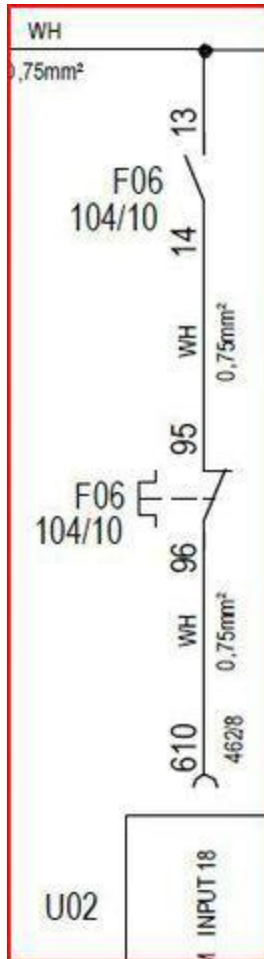
1] Yes

2] No

3] I don't know

- **Explanation**





IN THE AT2 CABINET:

- Check the INPUT/ OUTPUT voltage(F06)
- Check the MCB function.
- Check the MCB continuity.
- Check the required current setting in the MCB
- Check for loose connection in the terminals and cable condition.
- Check the Auxiliary relay function input to the TOI.

Refer Documents:

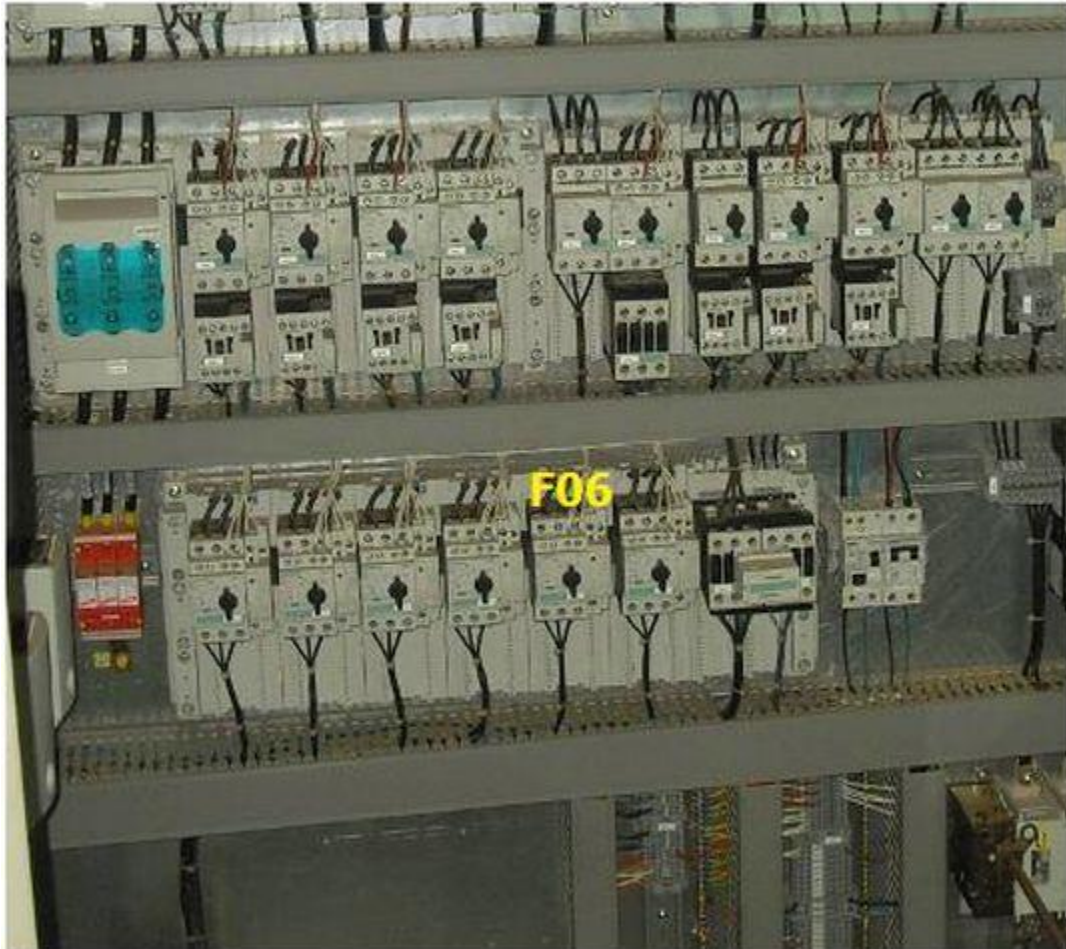
- Replacement of Electrical parts in Control Panels (WKI [0001-8388](#))
- Risk Assessment ([0001-8390](#))

Vestas Item No:

- Item no for MCB - 60004746

- Item no for auxiliary Relay - 60004778

Components View in AT2 Panel:



Replace yaw motor/Replace yaw motor magnetic coil

Does this solve the problem?

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

- **Explanation**

- Check for any loose connection in the terminal box:
- Remove the STAR/ DELTA connections and check the Winding /coil resistance valve

Yaw motor



Yaw motor connection:



Remove the Yaw brake magnetic coil connection

And Measure the resistance value of the motor windings and magnetic coil.

Measure phase to phase and phase to earth on all windings.



The resistance value should be $>1\text{M}\Omega$.

- Check the supply voltage R,Y ,B Winding
- To ensure operate the Motor and listen abnormal noise of any kind.
- If magnetic coil failure, we can replace the coil only.

Refer documents:

- Yaw motor replacement WKI: [0011-5166](#).

- Service Work Instruction for Yaw Lock: [0002-8965](#)
- Service Work Instruction for Yaw System" [1000686](#)

Vestas Item No:

- Yaw motor : 60091176
- Yaw motor magnetic coil-
- 60120682(AC BRAKE TYPE FA)
- Yaw lock assembly.:VT735237

Yaw motor magnetic coil



Check & adjust the yaw magnetic brake – Refer the Service Work Instruction for Yaw System” [1000686](#)

Replace the defective cable

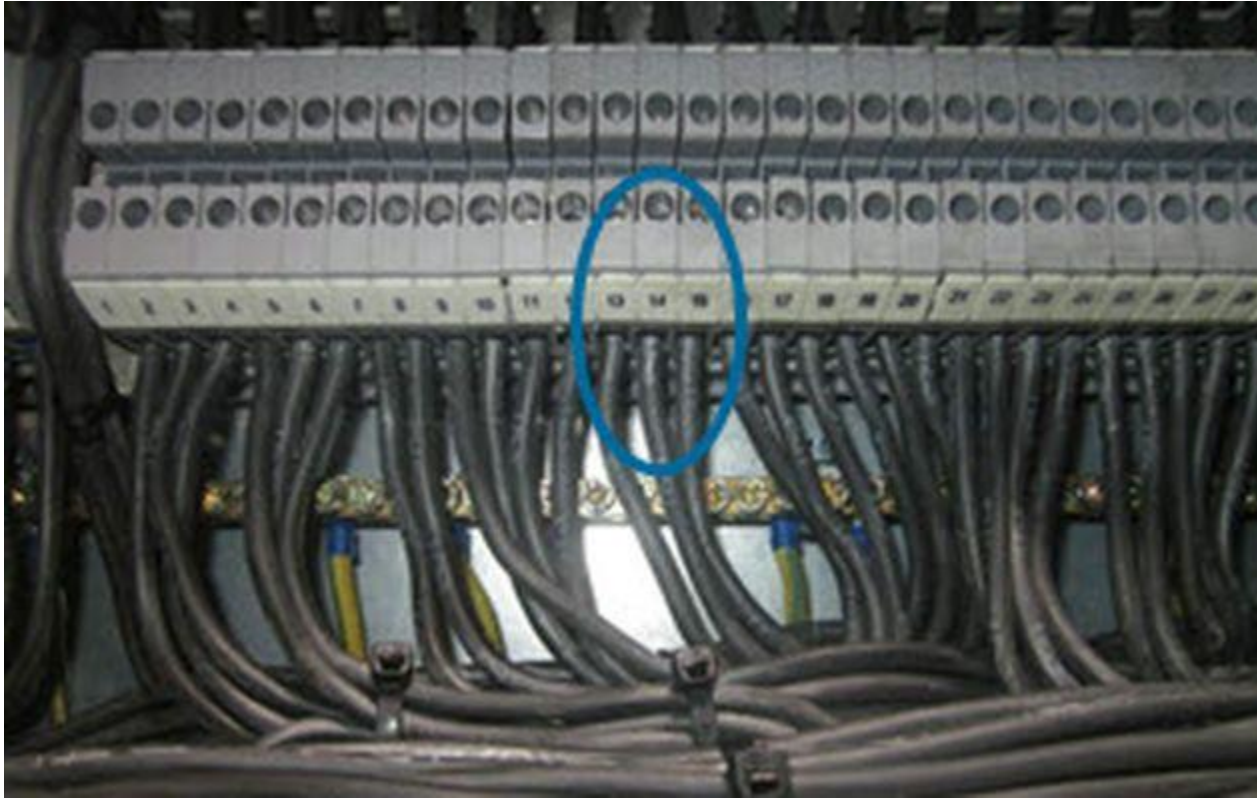
Does this solve the problem?

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

- **Explanation**
Cable coming from +AN4 to yaw motor 5 terminal box



- Check the incoming cable from Control panel (+AT2) to motor box (+AN4)
- Check the cable connection from motor box(+AN4) to Yaw motor 5 terminal box (W304)



Observation Points:

- Change the TOI if no signal from TOI
- To check tightness of the connection.

Refer Documents:

- Replacement of Electrical parts in Control Panels ([0001-8388](#))
- Risk Assessment ([0001-8390](#))

Vestas Item No:

- 51701501

Replace the defect Tower TOI unit

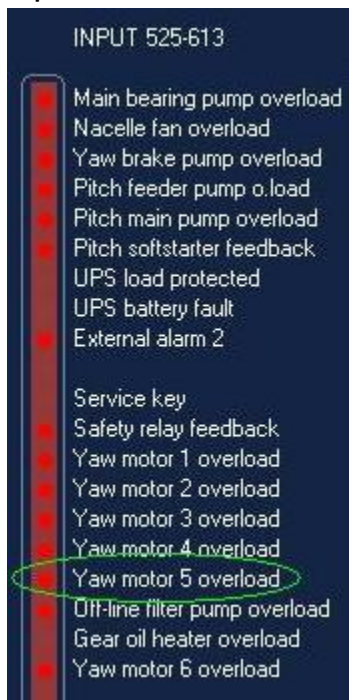
Does this solve the problem?

1] Yes

2] No

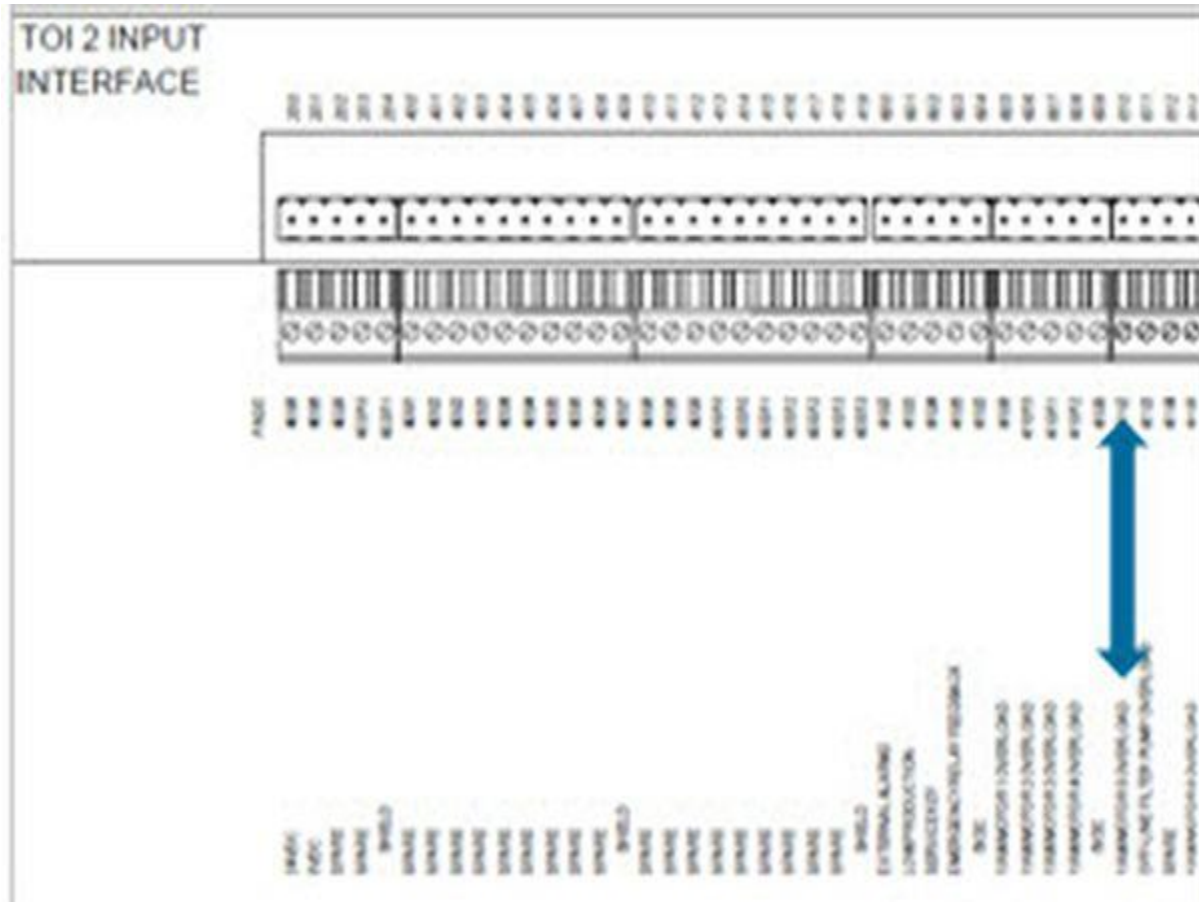
3] I don't know

- **Explanation**



TOI Controller:





Observation Points:

- Change the TOI if no signal from TOI
- To check tightness of the connection.

Refer Documents:

- Replacement of Electrical parts in Control Panels ([0001-8388](#))
- Risk Assessment ([0001-8390](#))

Vestas Item No:

- 51701501

To replace the yaw gear unit

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**
IN THE NACELLE:

- Remove the yaw motor with connection

Refer the below Doc:

1. [0004-5922](#)
2. [0011-5166](#)

- Keep the yaw motor safely
- Check the oil level in gears. If necessary, top up yaw gears with correct type of oil.
- Master Reset the WTG and Switch on yaw controller.
- To make ensure yaw gear rotate or not.
- To ensure rotate the yaw gear unit and listen abnormal noise of any kind.
- If not rotate the yaw gear unit or create abnormal noise, change the yaw gear unit as per WKI.
- To ensure yaw gear unit bed bolt torque value as per I & S data

Refer Documents:

- Replacement of Yaw Gear Unit WKI: [0010-5073](#)

Vestas Item no: 60103371

Picture view yaw gear:

