

Replace the defect Magnetic coil

Does this solve the problem?

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

- **Explanation**
IN THE Nacelle:

If the Magnetic coil is found to be defective replace the magnetic coil

Item Number: 60120682 - AC BRAKE TYPE FA



For details, refer to the service Instruction for Yaw System -[1000686](#)



Replace the defect MCB

Does this solve the problem?

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

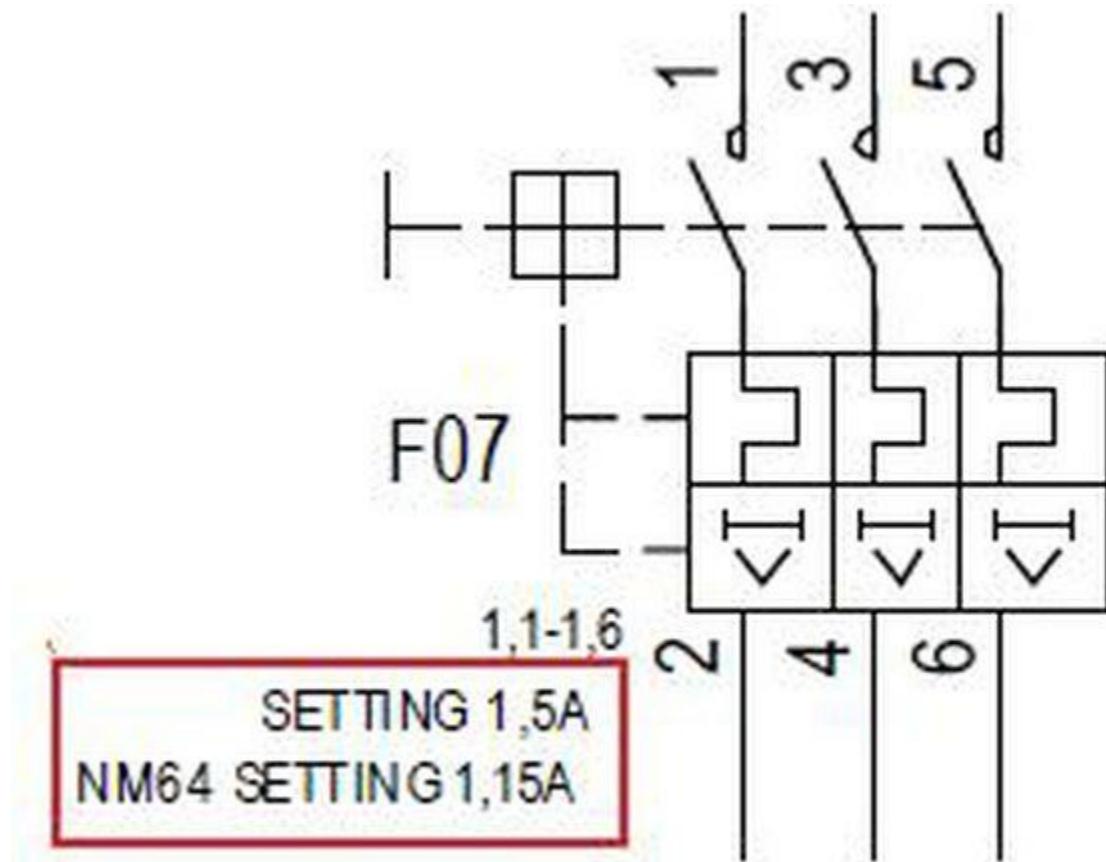
- **Explanation**
IN THE AT2 CABINET:

Check the INPUT/ OUTPUT voltage(F07= 50Hz-F42= 60Hz)

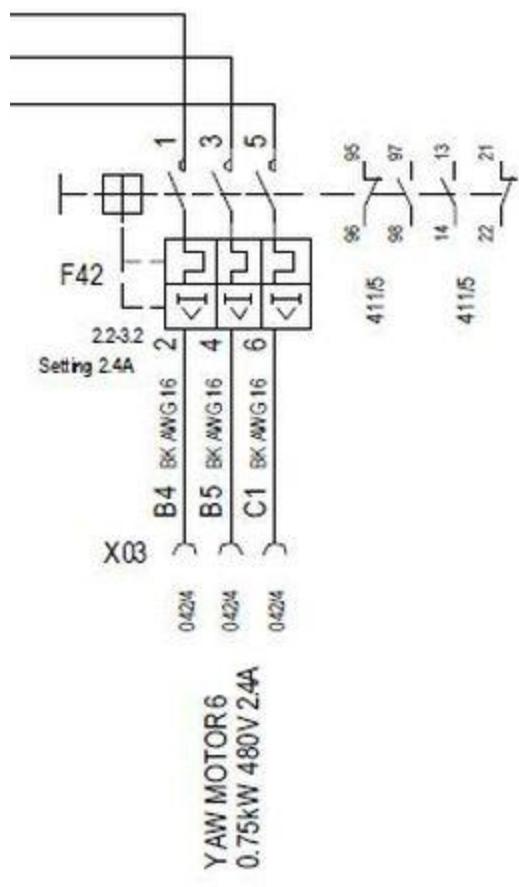
Check the MCB function

Check the required current setting in the MCB:

50 Hz

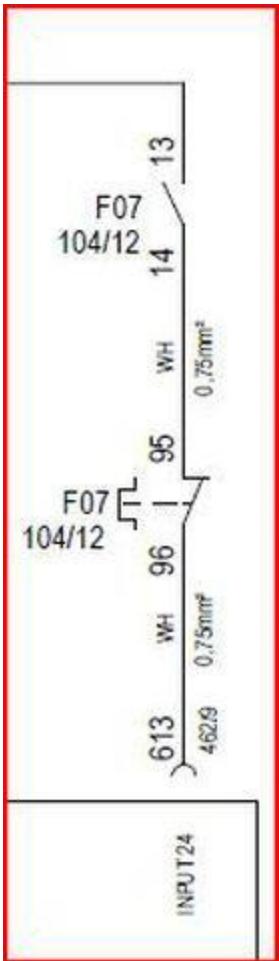


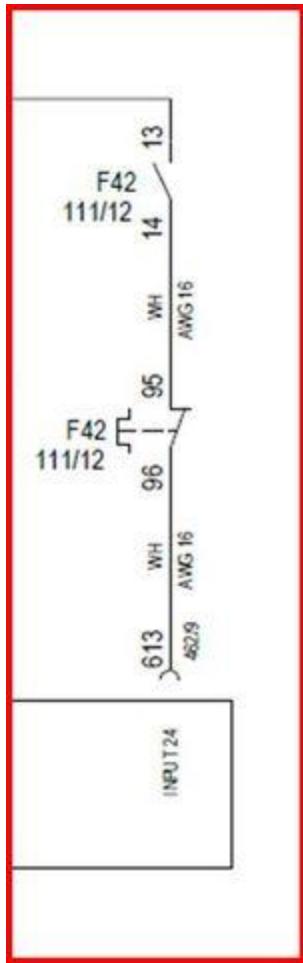
60Hz



Check for loose connection in the terminals and cable condition.

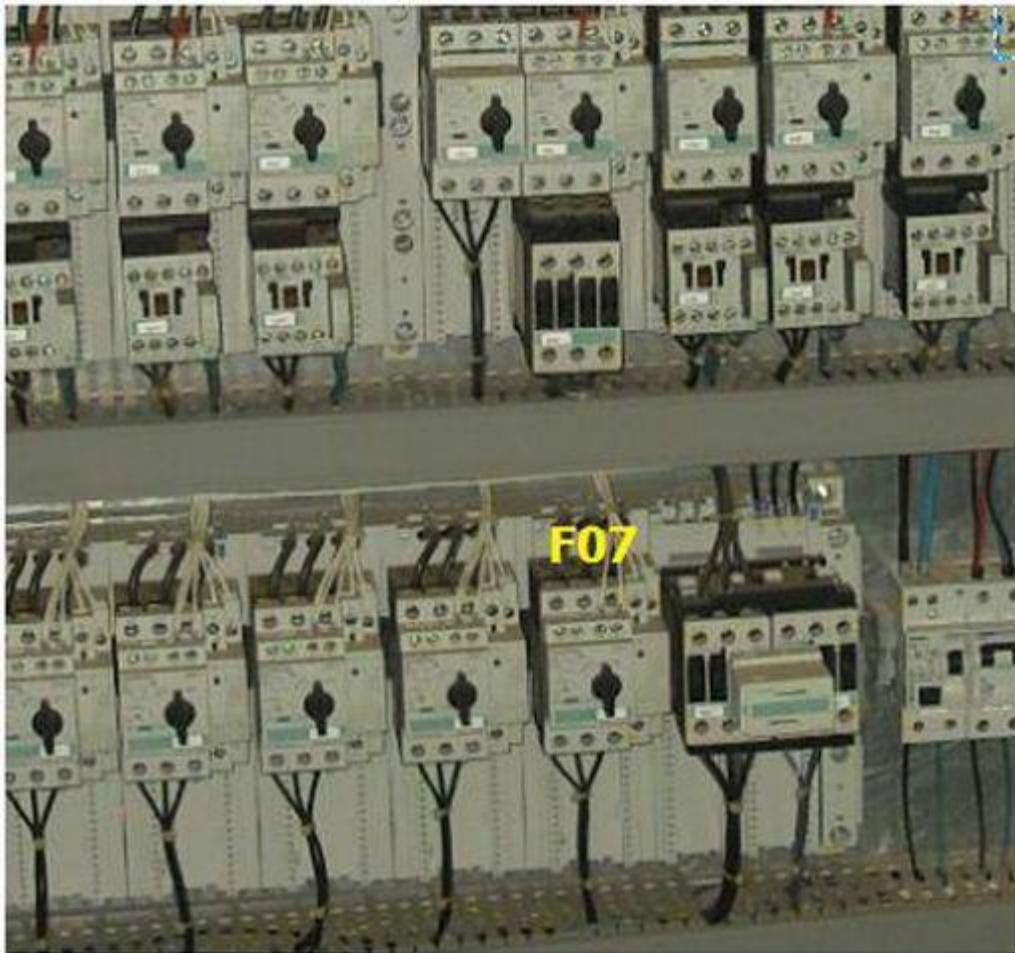
Check the Auxiliary relay function input to TOI





If defect replace the MCB (Item number – [60004746](#) 50 Hz 60004749 60 Hz)

If defect replace the Auxiliary relay (Item number – [60004778](#) 50 Hz/60Hz)



Correct the cable if any abnormality

Does this solve the problem?

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

- **Explanation**
IN THE Nacelle:

AT AN4 : Check the proper connection and connectivity between AN4 to motor terminal box cable (W339) and main cable from AT2 to AN4 (W310) connections and connectivity.





Installed the Yaw motor Hat and Sealing cover of the nacelle

Does this solve the problem?

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

- **Explanation**
IN THE Nacelle:

Ensure mounting hat is fixed

Mounting Hat on Yaw Motor [0004-5922](#)

(Item Number: [883141](#) -KIT SET FOR YAW MOTOR PROTEC)



Ensure sealing on cover is fixed:

Sealing Nacelle Cover [0004-7508](#)

Relevant spare parts	
Description	Item No.
COVER PL. CPL. AT MAIN SHAFT V82 -LEFT	<u>60111602</u>
COVER PL CPL AT MAIL SHAFT V82 -RIGHT	<u>60111603</u>



Replace the defect TOI

Does this solve the problem?

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

• **Explanation
IN THE AT2 CABINET:**

Check the Input signal from MCB on TOI terminal no 613

INPUT 525-613

- Main bearing pump overload
- Nacelle fan overload
- Yaw brake pump overload
- Pitch feeder pump o.load
- Pitch main pump overload
- Pitch softstarter feedback
- UPS load protected
- UPS battery fault
- External alarm 2

- Service key
- Safety relay feedback
- Yaw motor 1 overload
- Yaw motor 2 overload
- Yaw motor 3 overload
- Yaw motor 4 overload
- Yaw motor 5 overload
- Off-line filter pump overload
- Gear oil heater overload
- Yaw motor 6 overload

If defect, replace the TOI (Item Number [51701501](#))



Replace the defective contactor

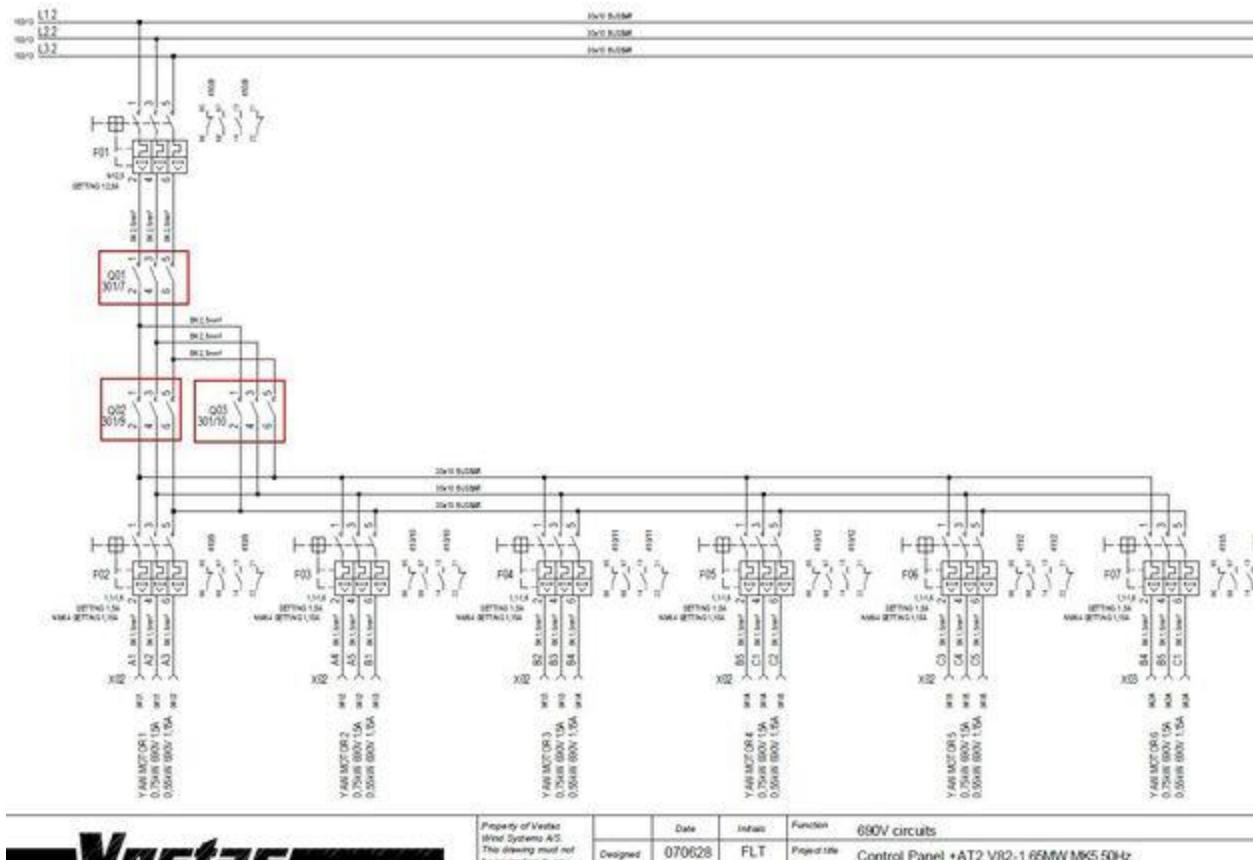
Does this solve the problem?

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

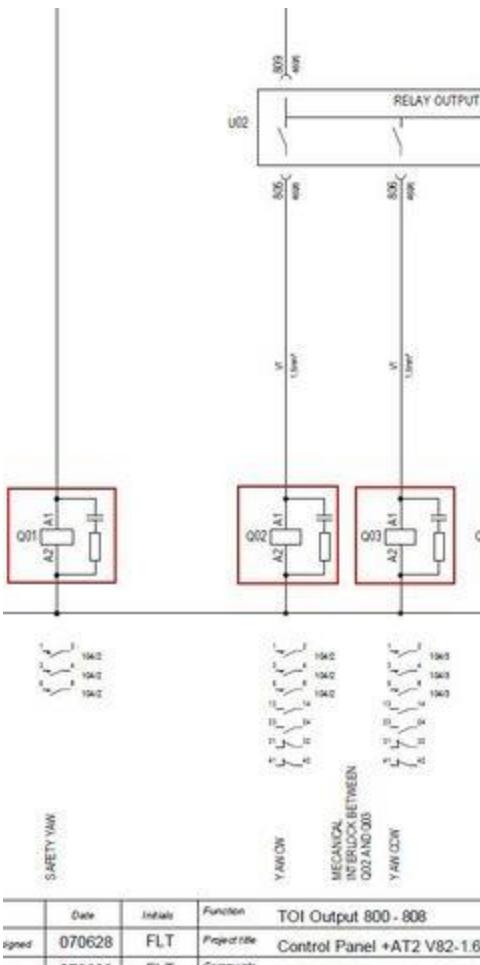
- **Explanation**

Check the contactors Q01, Q02 & Q03 function and loose connection.

Replace the contactor, if its failed



Vectra



Item No for Q01,Q02 & Q03: [60004407](#) CONT 3RT1026-1AP00 230V 50HZ

Replace the defect Motor

Does this solve the problem?

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

- **Explanation**
IN THE Nacelle:

Check the input voltage (MOTOR Position Number: M17)

Operate the Motor and listen for faulty bearings or abnormal noise of any kind.



Check for any loose connection in the terminal box:



Remove the STAR/ DELTA connections.



Remove the Yaw brake magnetic coil connection

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

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



If the motor is found to be defective replace the motor with magnetic coil

(Item number: [60091176](#))



Yaw Motor replacement SWI - [0011-5166](#)

Replace the defect Yaw Gear unit

Does this solve the problem?

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

- **Explanation**
IN THE Nacelle:

Check the oil level in the gear unit, top up the recommended oil If necessary.

Operate the yaw gear and observe any kind of abnormal sound.

If the yaw gear unit is found to be defective replace the gear unit and apply the torque value as per I & S data



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

(Item number: [60103371](#) -Yaw gear Bonfiglioli 709T4F 0)

Refer Service Work Instruction for Yaw Lock - [0002-8965](#) before replacement of yaw gear unit, motor and magnetic coil.