

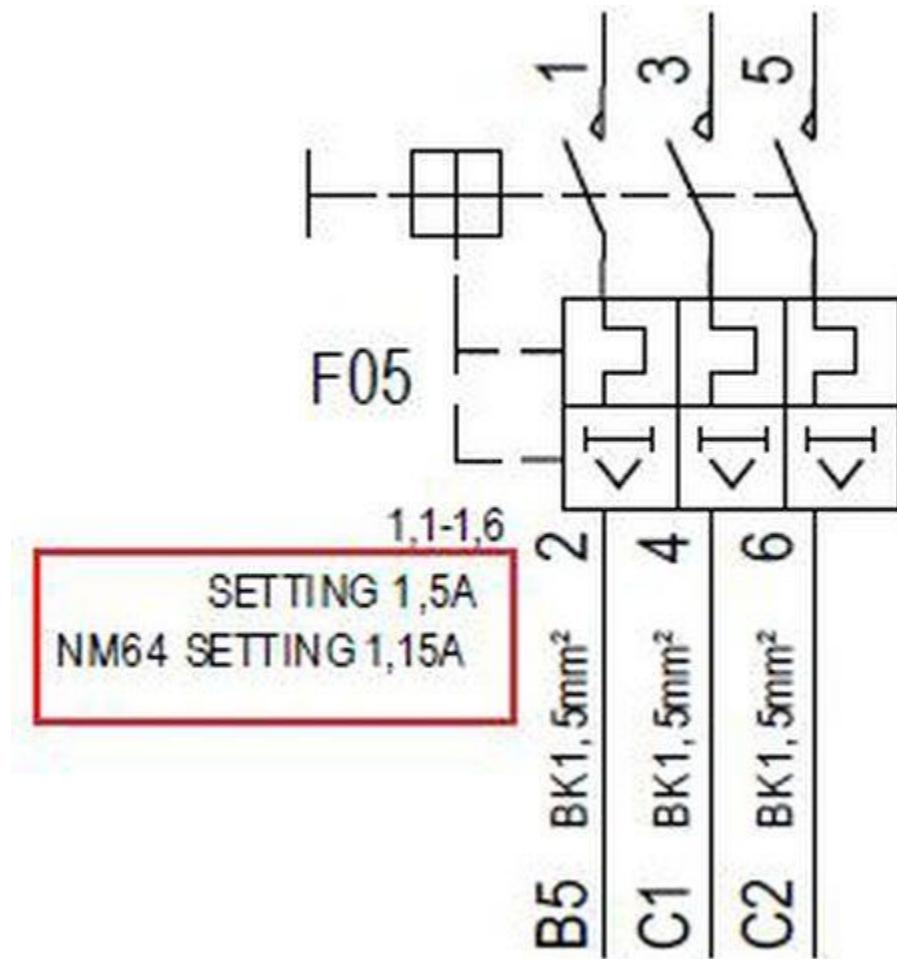
Replace the defect MCB

Does this solve the problem?

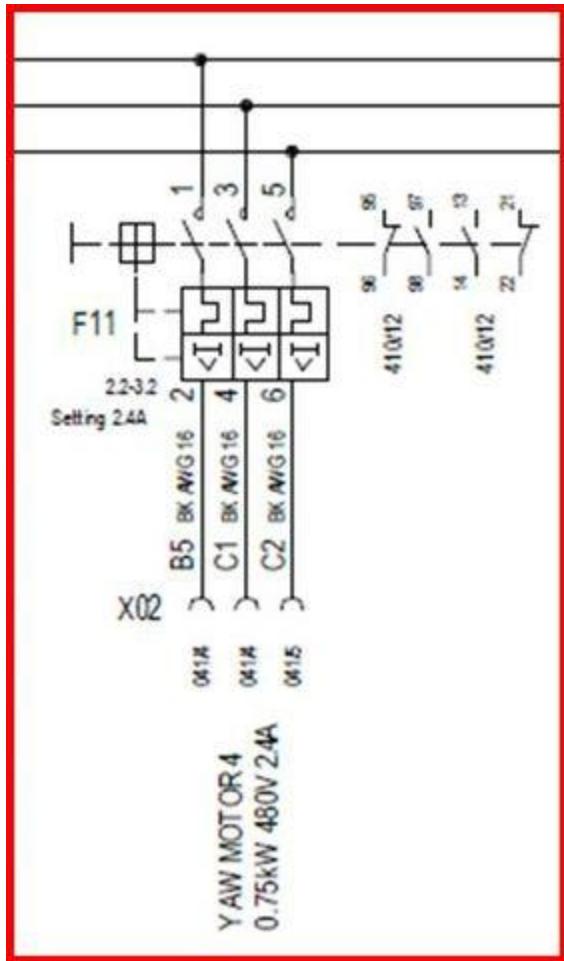
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

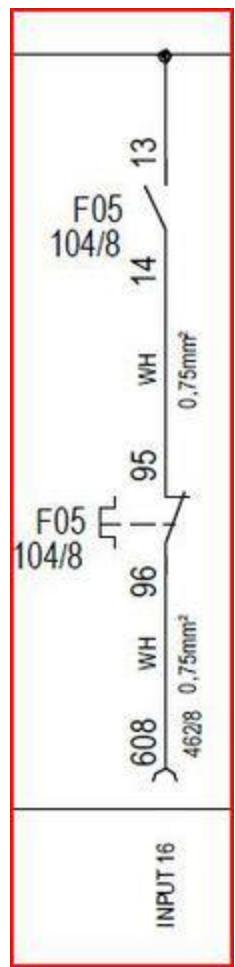
50 Hz



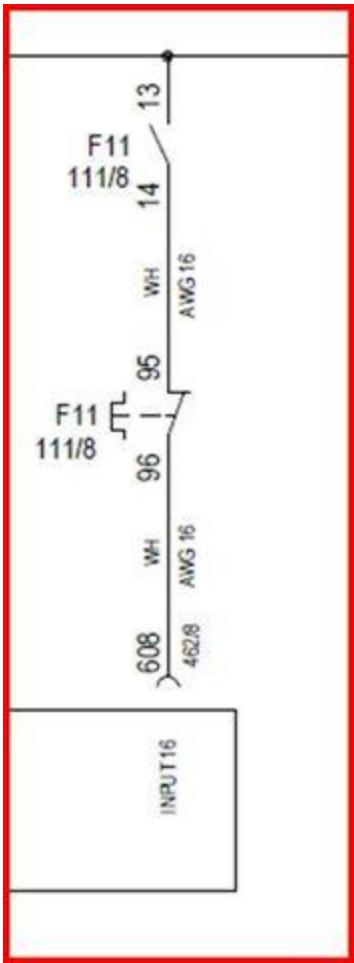
60 Hz



50 Hz



60 Hz



IN THE AT2 CABINET:

- Check the INPUT/ OUTPUT voltage(F05/F11)
- 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 TOI.

Relevant documentation	
Description	DMS No.
Replacement of Electrical parts in Control Panels	0001-8388

Relevant spare parts	
Description	Item No.
Item no for MCB	60004746
Item no for MCB	60004749
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 >1MΩ.

- 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 coil only.

Relevant documentation	
Description	DMS No.
Service Work Instruction for Yaw Lock	0002-8965
Yaw motor replacement	0011-5166

Relevant spare parts	
Description	Item No.
YAW MOTOR BONFIGLIOLI 0,75/0,9	<u>60091176</u>
AC BRAKE TYPE FA (Yaw motor magnetic coil)	<u>60120682</u>
YAW LOCK MAIN ASSEMBLY	<u>VT735237</u>

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?

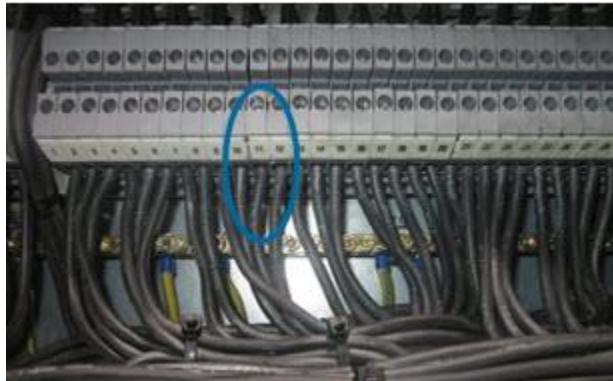
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Cable coming from +AN4 to yaw motor4 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 4 terminal box (W303)



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

Relevant documentation	
Description	DMS No.
Mounting Hat on Yaw Motor 6	0004-5922
V82/NM82 Replacement of Yaw Motors	0011-5166
Replacement of Yaw Gear Unit	0010-5073

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 valve as per I & S data

Relevant spare parts	
Description	Item No.
Yaw gear Bonfiglioli 709T4F 0	60103371

[Picture view yaw gear:](#)



Replace the defect Tower TOI unit.

Does this solve the problem?

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

• **Explanation**

Observation Points:

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

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

TOI Controller:



TOI 2 INPUT INTERFACE

24VDC	4036	200
0VDC	4035	201
SPARE	4036	202
SHIELD	4037	203
SPARE	4038	204
SPARE	4039	205
SPARE	403A1	206
SPARE	403B1	207
SPARE	403C2	208
SPARE	403D2	209
SPARE	403E2	210
SPARE	403F2	211
SPARE	403G3	212
SPARE	403H3	213
SPARE	403I4	214
SPARE	403J4	215
SPARE	403K4	216
SPARE	403L4	217
SPARE	403M4	218
SPARE	403N4	219
SPARE	403O4	220
SPARE	403P4	221
SPARE	403Q4	222
SPARE	403R4	223
SPARE	403S4	224
SPARE	403T4	225
SPARE	403U4	226
SPARE	403V4	227
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Relevant documentation

Description	DMS No.
Replacement of Electrical parts in Control Panels	0001-8388
Replacement of Electrical parts in Control Panels	0001-8390

Relevant spare parts

Description	Item No.
TOI-II INTERF NM1500 TOWER	<u>51701501</u>

