



Change the contactor

Does this solve the problem?

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

● [Explanation](#)

DANGER: It takes up to 5 min. to de-energise the capacitors.

Follow WKI 0014-8310 for electrical test and isolation.

If the contactor is blocked, burned or welded, the turbine will have problems to connect to the grid, especially at low wind it will be more affected. On first hand a defect contactor can be detected visually, as in this example where the "green" plastic part for the auxiliary contactor stays inside:



Looks like this when OK:



Always measure all the contactors for correct function.

Relevant spare parts (50 Hz)	
Description	Item No.
CONT K350K10230 W/RC-UNIT 230V	60096832
FUSE 690V 100A NH00 GL/GG	60005100

Relevant documentation (50 Hz)	
Description	DMS No.
SINGLE LINE DIA V82 1SP MK5 50Hz	934703
PFC PANEL +AT3 NM72/82 IECI/III NL 50 Hz	D6011999
Replacing Defective Capacitors, NM72/NM82/V82	0014-8310



Replace the fuse

Does this solve the problem?

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

- [Explanation](#)

Only Applicable to India turbines

Visually check module unit fuses, if fuse switch opens change the fuse. Check the continuity if break change the fuse. Before change the fuse check the relevant circuit for fault.





Relevant spare parts (50 Hz)

Description	Item No.
FUSE125A 500V 80KA	70000411

982 - Cut-in frequency fault - V82



Change the damaged MCB

Does this solve the problem?

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

- [Explanation](#)

Only Applicable to India turbines

Check the MCB continuity & visual inspection any phase found damage replace it





Relevant spare parts (50 Hz)	
Description	Item No.
CIRCUIT BREAKER MCB 63A 3POLE	70000416

Change the cable

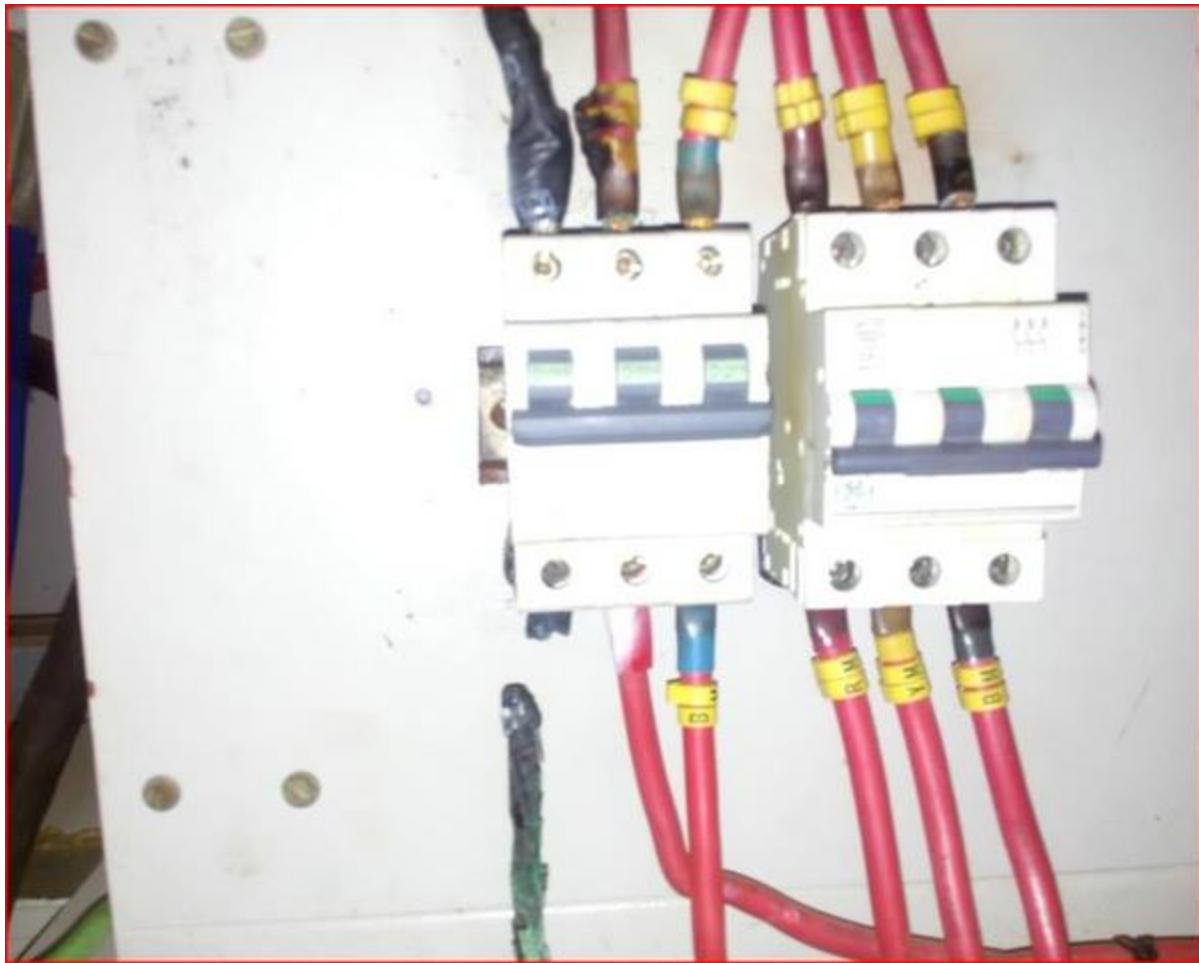
Does this solve the problem?

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

- [Explanation](#)

Only Applicable to India turbines

Check the additional PFC(ICDS) panel Idle bank MCB incomming cable condition if cable found damage replace the cable and redo the crimping





982 - Cut-in frequency fault - V82



Check the capacitors in 440V,full Load Compensation panel and replace if the capacitance is less than 65% of rated value
Does this solve the problem?

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

- [Explanation](#)

Only Applicable to India turbines

Check the capacitor and other components condition and replace, if found degraded or damaged

Relevant spare parts	
Description	Item No.
CAPACITOR, 16.7KVAR 3 PHASE 440V	70000224
CYL CAP. 28KVAR 440V 50HZ 3PH	70000360

CAPACITOR, 12.5KVAR 1 PHASE 440V	70000223
CIRCUIT REAKER MCB 40A 3 POLE	70000415
CIRCUIT BREAKER MCB 63A 3POLE	70000416
SNUBBER DISCHARGING INDI.CARD	70000230
CHARGING RELAY 90A - MAKE: ERI	70000417
DISCHARGING RELAY - MAKE: ERI	70000418
FUSE125A 500V 80KA	70000411
CONTACTOR UA 30 ABB MAKE	70000504

Defect Power Factor controller:

Check PF controller settings and manually check the capacitor switching, if it's not working replace with new controller.

Relevant documentation	
Description	DMS No.
Replacing Defective Capacitors, NM72/NM82/V82	0014-8310
RA	0014-8894