

## Replace the auxiliary contact

### Does this solve the problem?

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

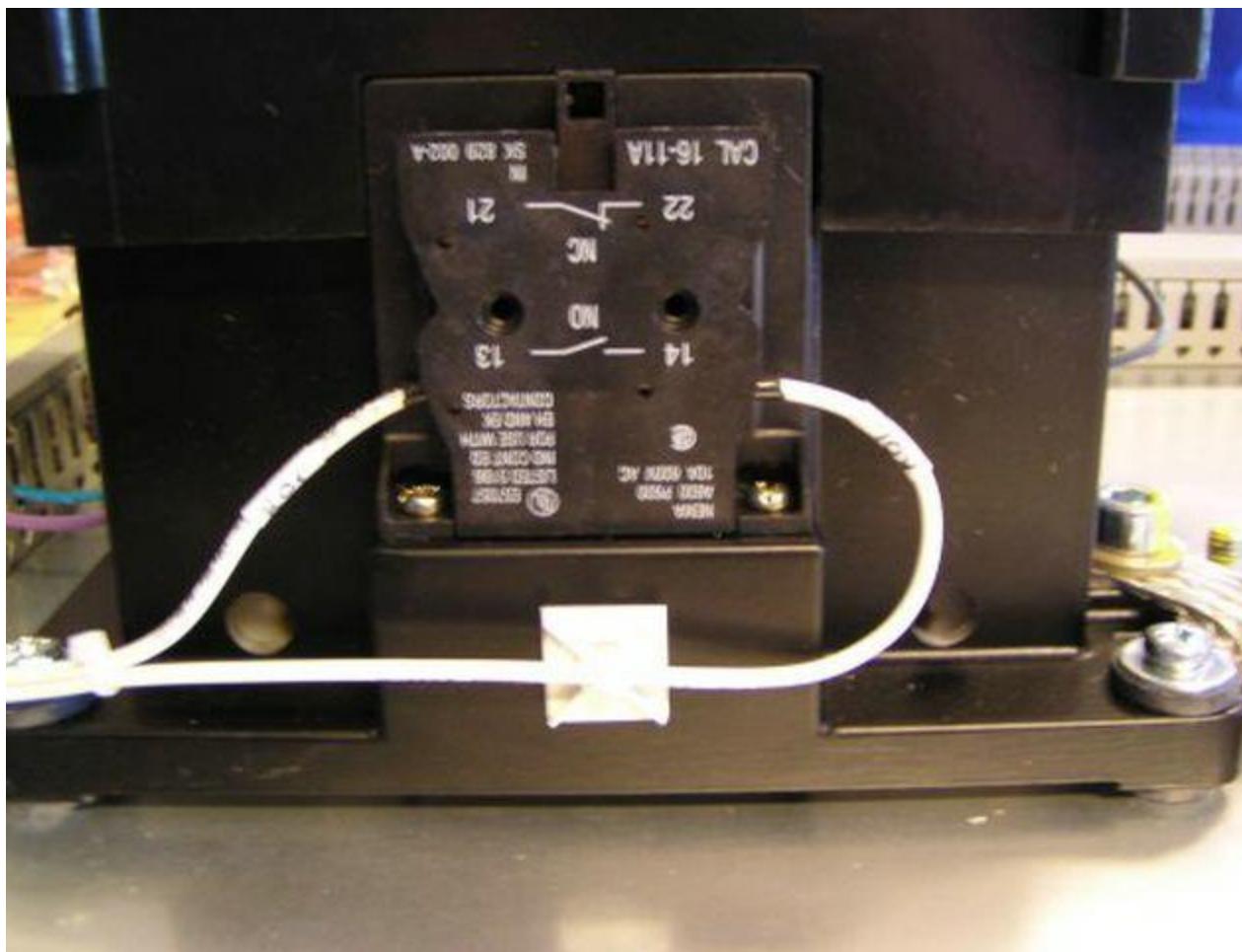
- **Explanation**  
**IN THE AT1 CABINET:**

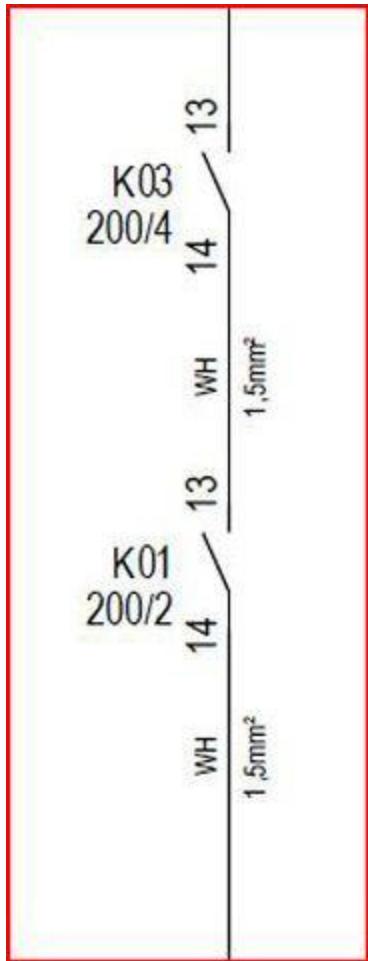
Check that the contact fasteners are tight.

Check that the contact functions freely.

Check for any loose connections at the feedback wire terminations.

Relevant spare parts	
Description	Item No.
AUX CONTACT CAL16-11A	<a href="#">60004318</a>





Check the Loose connections / Replace the defect TOI

Does this solve the problem?

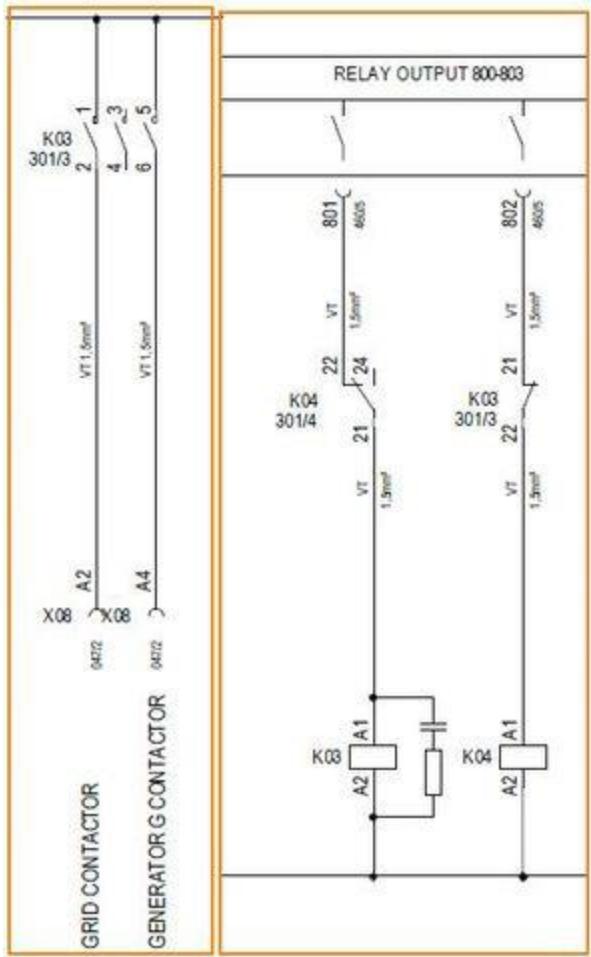
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**  
**IN THE AT2 CABINET:**

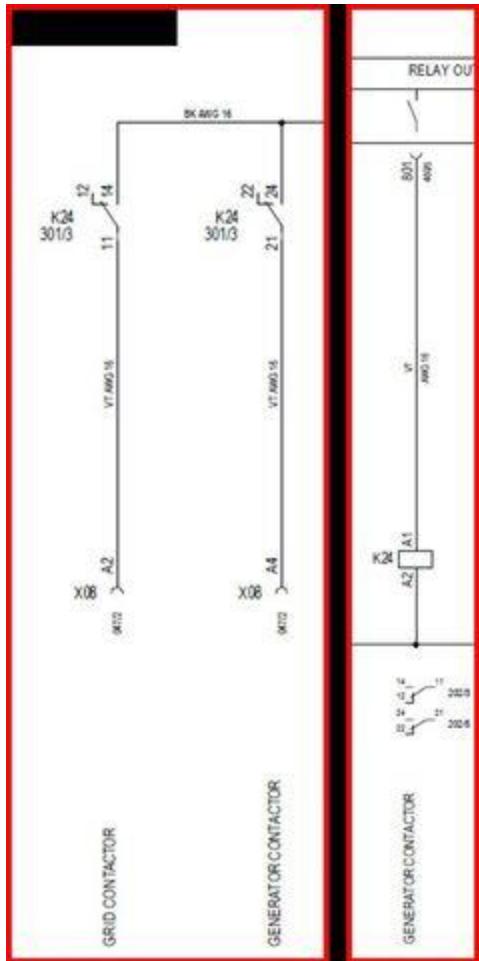
Check the TOI Output (RELAY OUTPUT 800 -803)



50 Hz:



60 Hz:



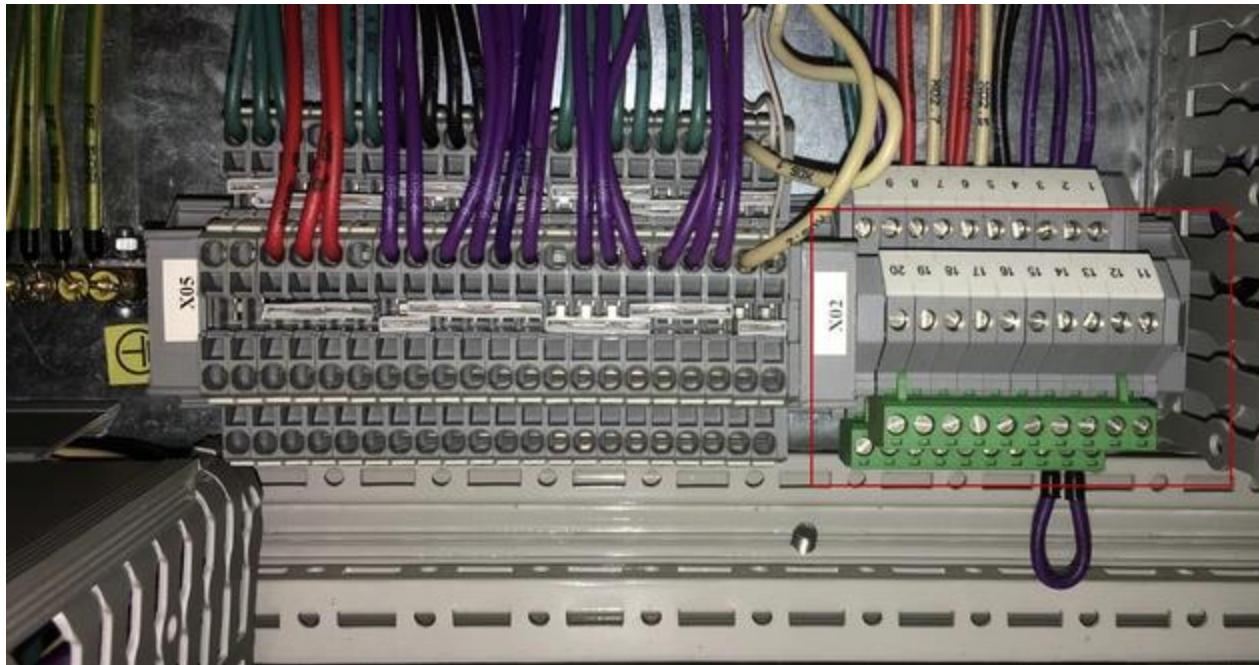
Check the K03 contactor operation,

Check the loose connection in the terminals,

Relevant spare parts	
Description	Item No.
CONT 3RT10161AP02 230V 50/60Hz	<a href="#">60004394</a>



Loose wires in X02 will cause this alarm 530, When the contactor K01 in cabinet +AT1 cut in, the vibration caused a short interruption of contact



### Replace the defect Main contactor

Does this solve the problem?

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

- **Explanation**  
**IN THE AT2 CABINET:**

Check the contactor function K01 & K03.

Check the contactor input supply.

If defective replace the contactor:



### Troubleshooting:

It is very important to make a correct evaluation of the contact. Fare too many contacts are being replaced for no reason, because the evaluation of the contact condition is wrong.

There is 2 contact set for each phase.

A Main contact and a spark contact (See picture 1 below)

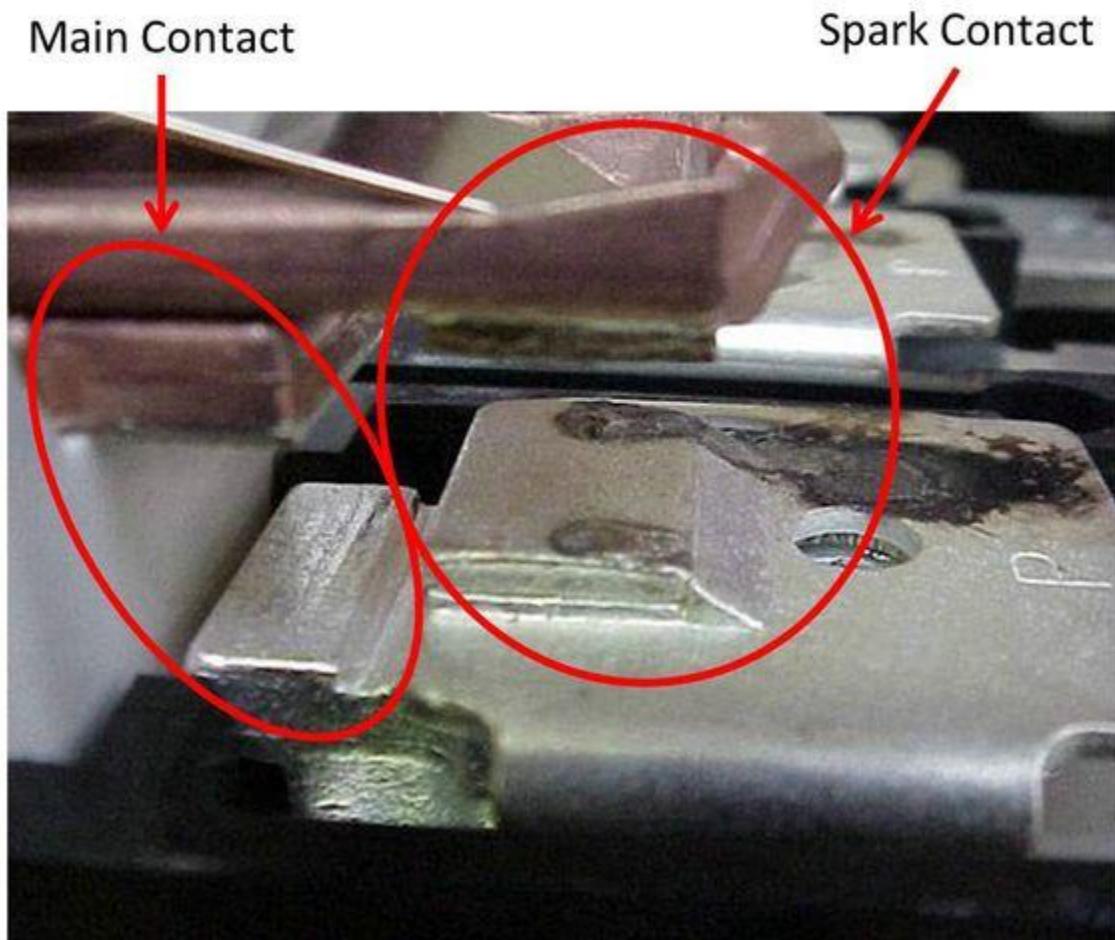
The main contact set must be in a good looking condition. This is where the full load is to be transferred through the contactor.

The Spark contact is designed to handle the unavoidable sparks and arcs that will be developed when opening and closing this amount of energy. (Up to 2-3MW). So burn marks on the spark contact set is not only allowed, it is expected.

A complete melt down of the spark contact set is of course not allowed, but most important is it to make sure that the

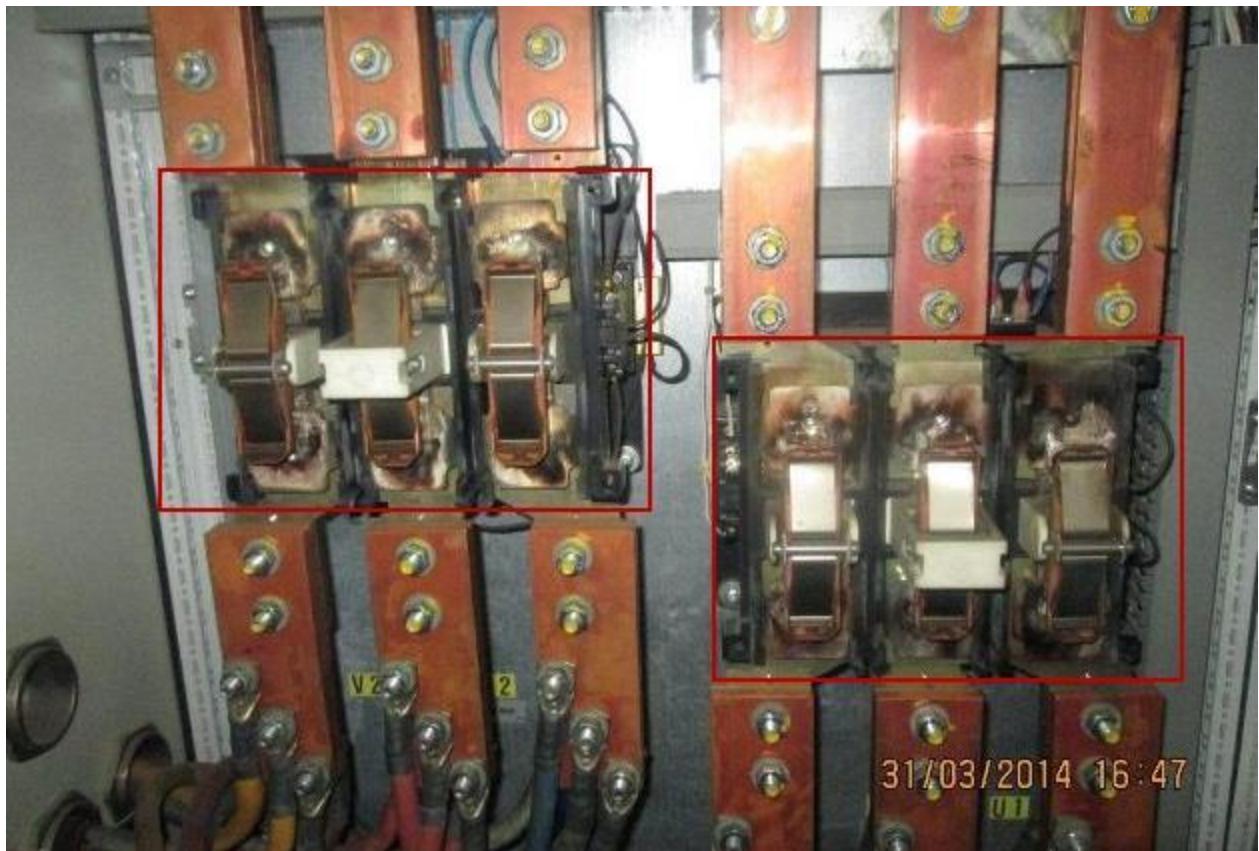
main contact set is not burned.

Picture 1.



The contactors below show clearly burn marks, but all burn marks that can be seen from this view are placed on the **Spark contact set** where it is supposed to be like this.

Only a closer look from the side of the contactor will show if the **Main contact set** is damaged.



**Solution:**

If the **spark contact set** has suffered a complete melt down or have extreme burn damage making the spark contact fall apart, then a replacement is required.

If the **main contact set** has burn marks making the surface un-even, then a replacement is required.

Relevant spare parts		
Description	New Item No.	Old Item No
CONTACTOR EH1200	<a href="#"><u>093693</u></a>	<a href="#"><u>60004316</u></a>
CONTACT SET FOR EH1200	<a href="#"><u>093466</u></a>	
RESISTOR 1800R for EH-1200	<a href="#"><u>60113445</u></a>	

The picture below show a EK1200 contactor, where a new contact set (repair kit) have been mounted.



**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 TOI Input (DIGITAL INPUT 500 -504)



Check the signal presence in 501

Check LED indication is 'ON' for Generator G Contactor signal

