

Replace the auxiliary contact

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

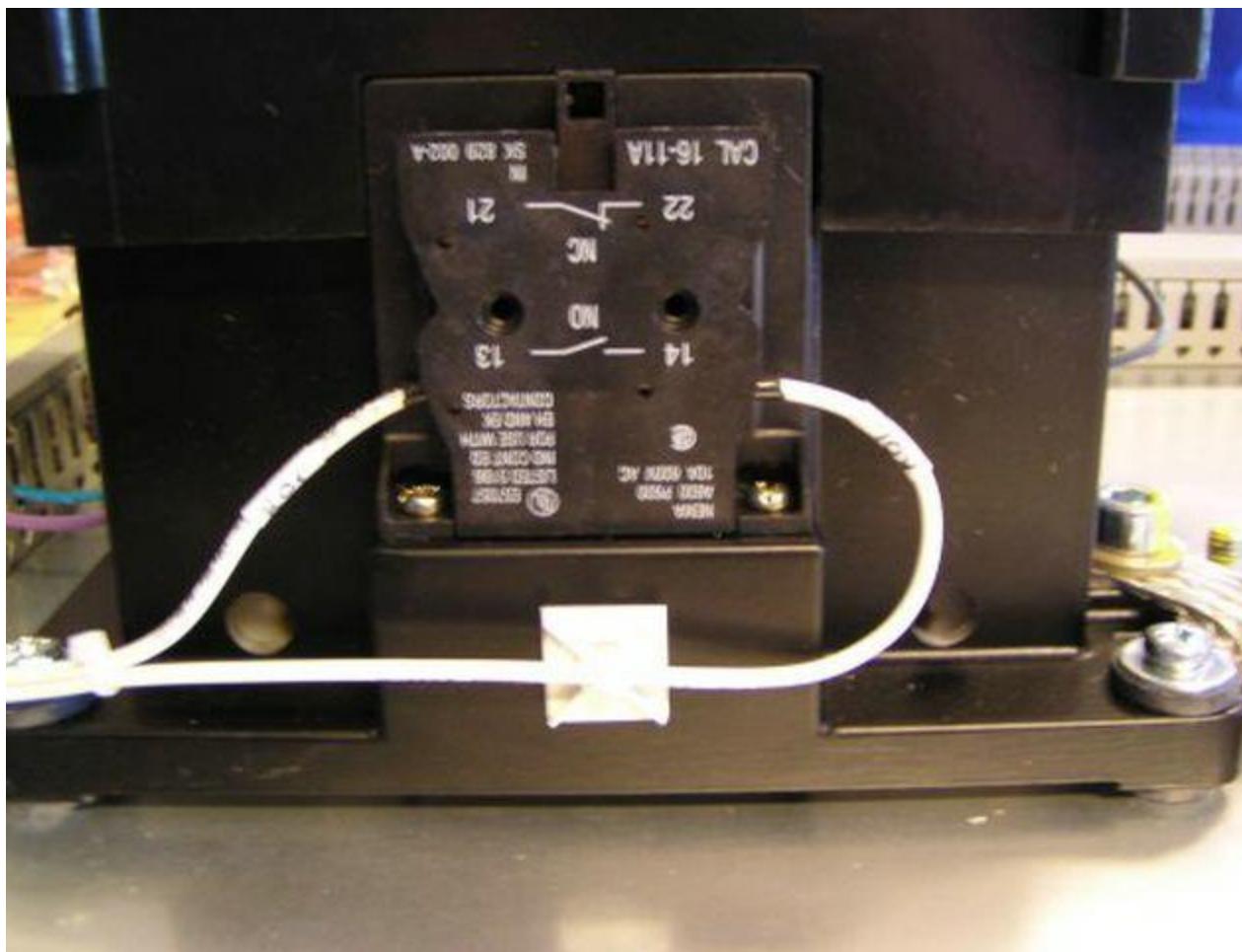
IN THE AT1 CABINET:

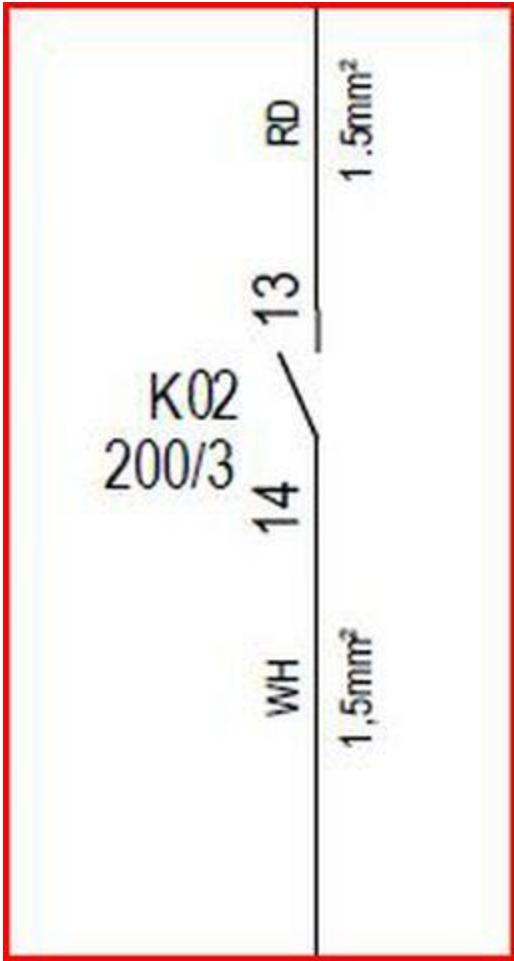
Check the contact fixing positions.

Check the contact function.

Check the feedback signal wire terminations and tighten if necessary,

If defective replace the relay (**Item number: 60004318- AUX CONTACT CAL16-11A**)





Bypass contactor

Does this solve the problem?

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

- **Explanation**
IN THE AT2 CABINET:

Check the contactor function K02.

Check the contactor input supply.

If defective replace the contactor:

(Item number: 60004316 CONT EH1200 240V 50/60Hz)



Troubleshooting:

It is very important to make a correct evaluation of the contact. Far 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.

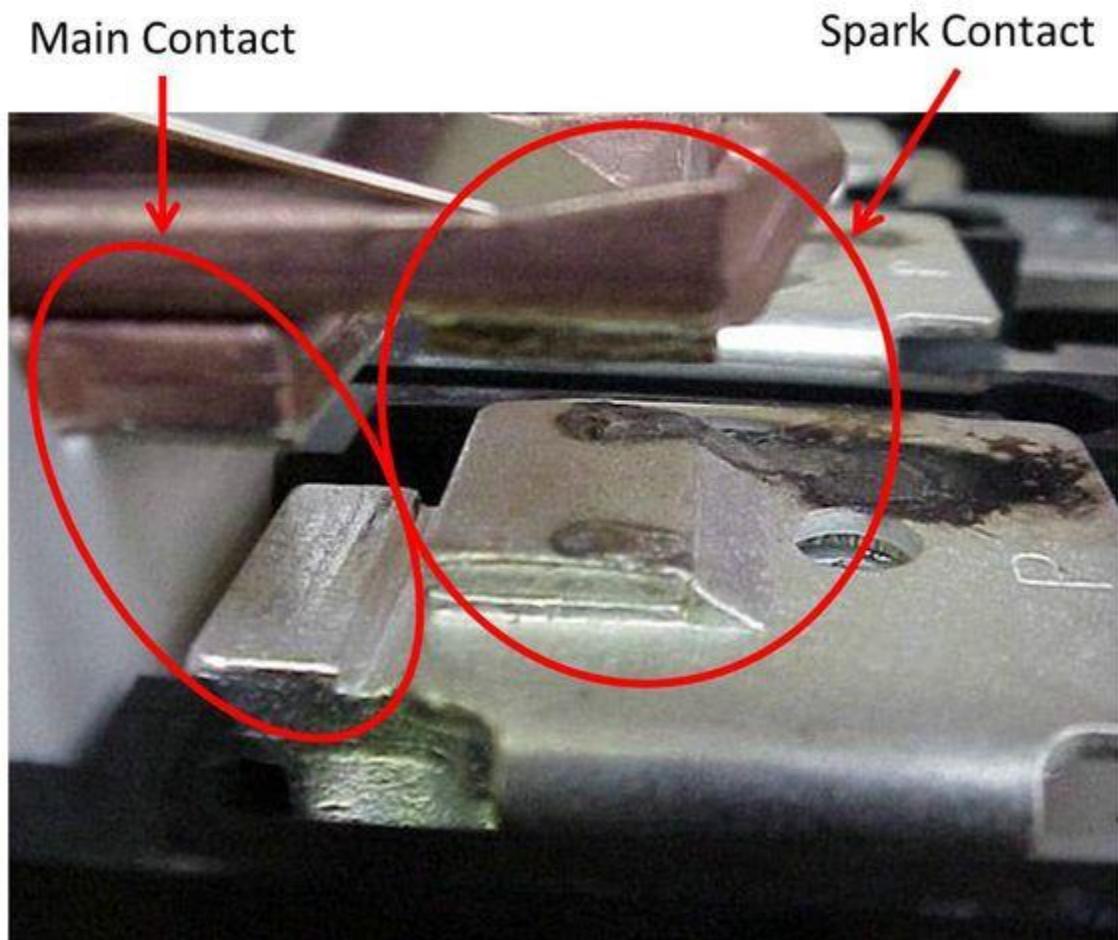
A Main contact and a spark contact (See picture 1 below)

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:

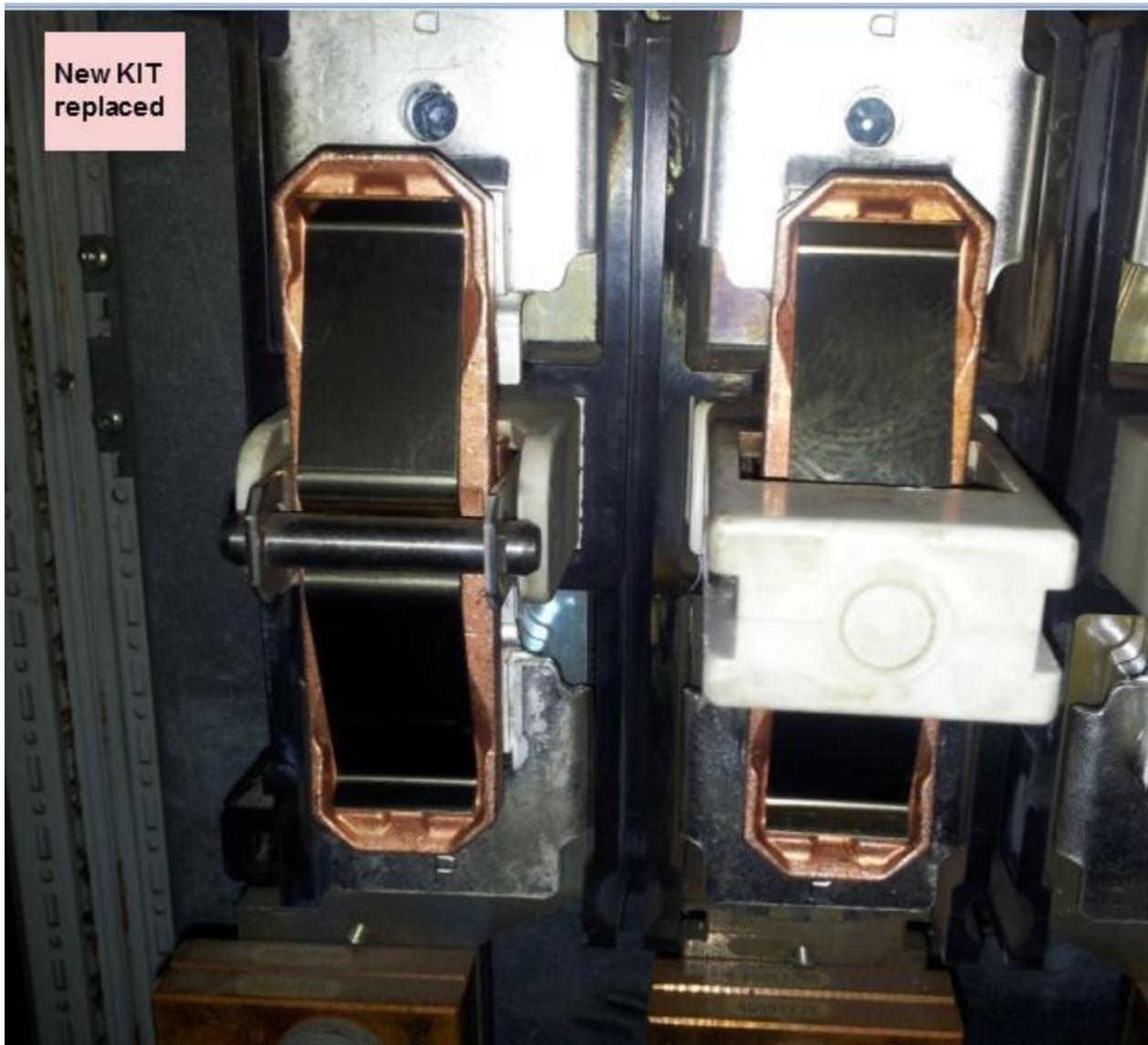
If the **spark contact set** has suffered a complete melt down or have extreme burn damage making the spark contact fall apart, then a replacement is required.

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

Spare parts		
Description	New Item No.	Old Item No
CONTACTOR EH1200	S093693	60004316

CONTACT SET FOR EH1200	<u>S093466</u>	
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The picture below show a EK1200 contactor, where a new contact set (repair kit) have been mounted.



Replace the defective TOI

Does this solve the problem?

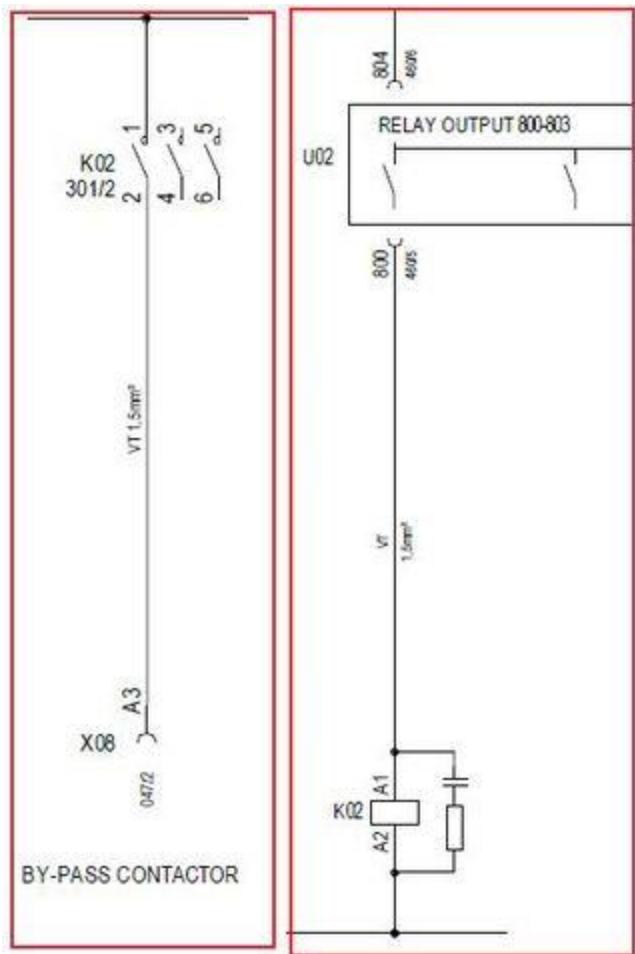
- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

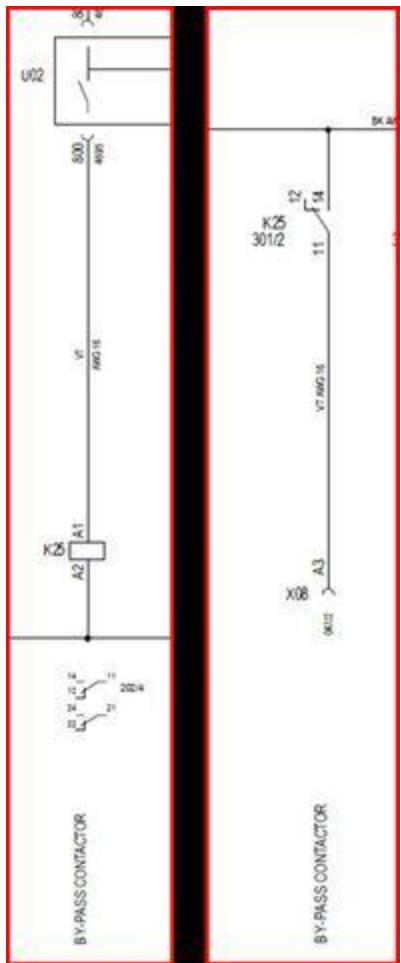
IN THE AT2 CABINET:

Check the TOI Output (RELAY OUTPUT 800 -803)





60 Hz



Check the K02/K25 relay operation.

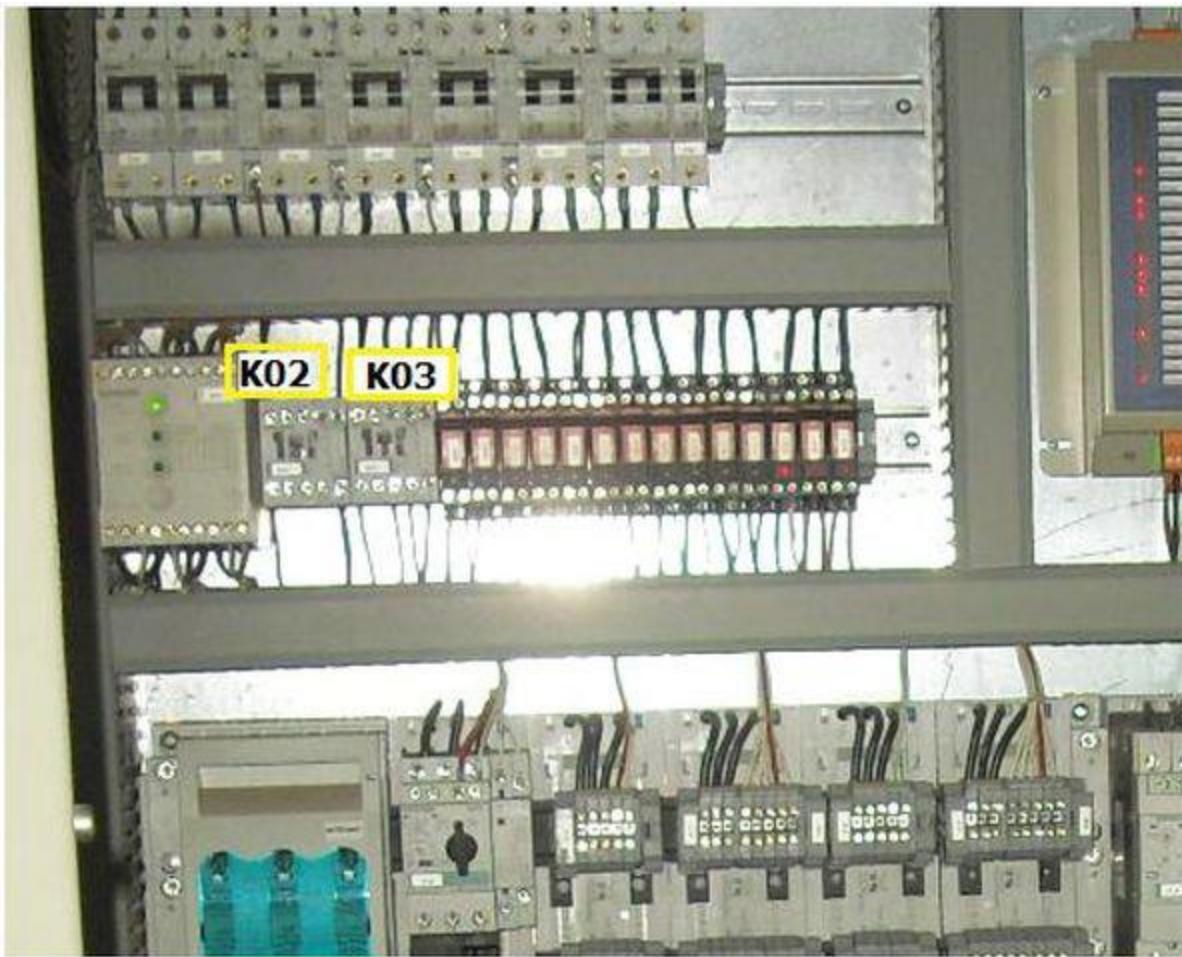
Check for loose connections at the feedback signal terminations.

If defective replace the contactor

Item Number :

(50Hz) 60004394 CONT 3RT10161AP02 230V 50/60Hz

(60Hz) 60004512 RELAY RT424730 8A 230V 2P



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 500

Check LED indication is 'ON' for bypass contactor signal

