

**Check the circuit and replace the defective components**

**Does this solve the problem?**

1] Yes

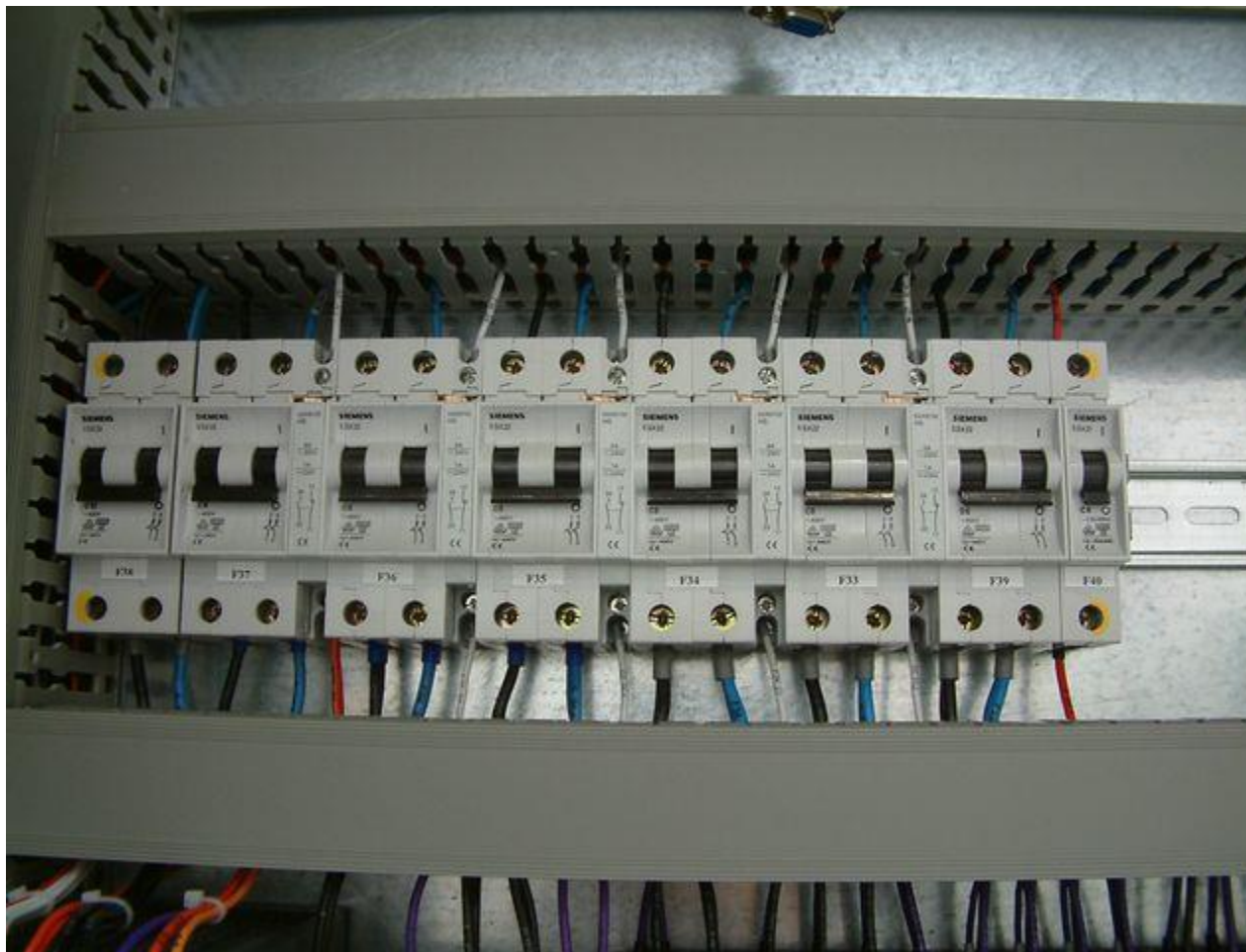
2] No

3] I don't know

- **Explanation**  
**IN THE +AT2 PANEL:**

Check for any loose connections at the CB terminals.

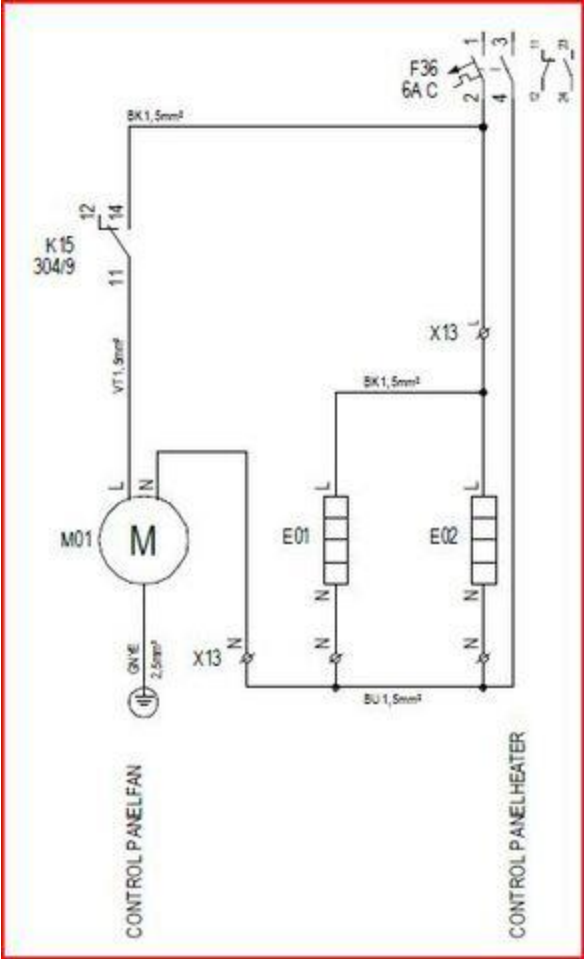
If the CB is defective replace with new.



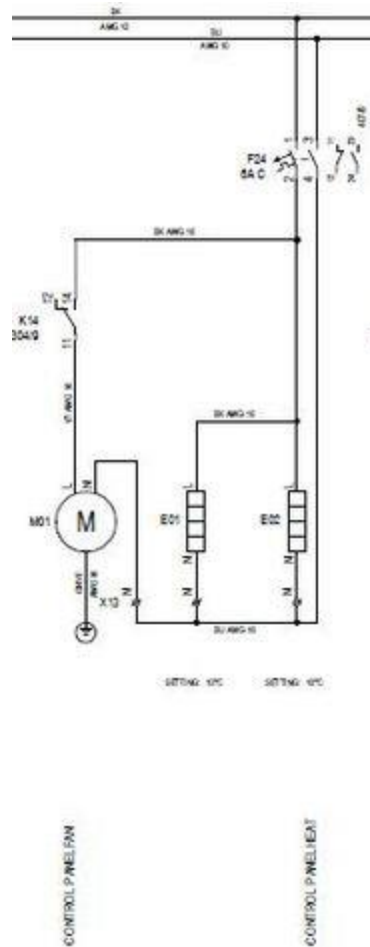
**Part number for F36/F24 CB:**

Relevant spare parts	
Description	Item No.
MCB 5SX22067 6.0A C 2P	<a href="#">60005157</a>
AUX CONTACT 5SX9100	<a href="#">60005193</a>

50Hz:



60Hz:



Check the control panel cooling Fan/capacitor, if defective replace the cooling fan/capacitor

Relevant spare parts	
Description	Item No.
FAN 500M3/H 230V	<a href="#">60014655</a>
CAPACITOR 2.5UF 400V	<a href="#">29058241</a>



Check the control panel heaters, if defective replace the heater.

Relevant spare parts	
Description	Item No.
HEATER FAN CR0 27 475/550W	<a href="#">60014729</a>



**Check the circuit and replace the defective components**

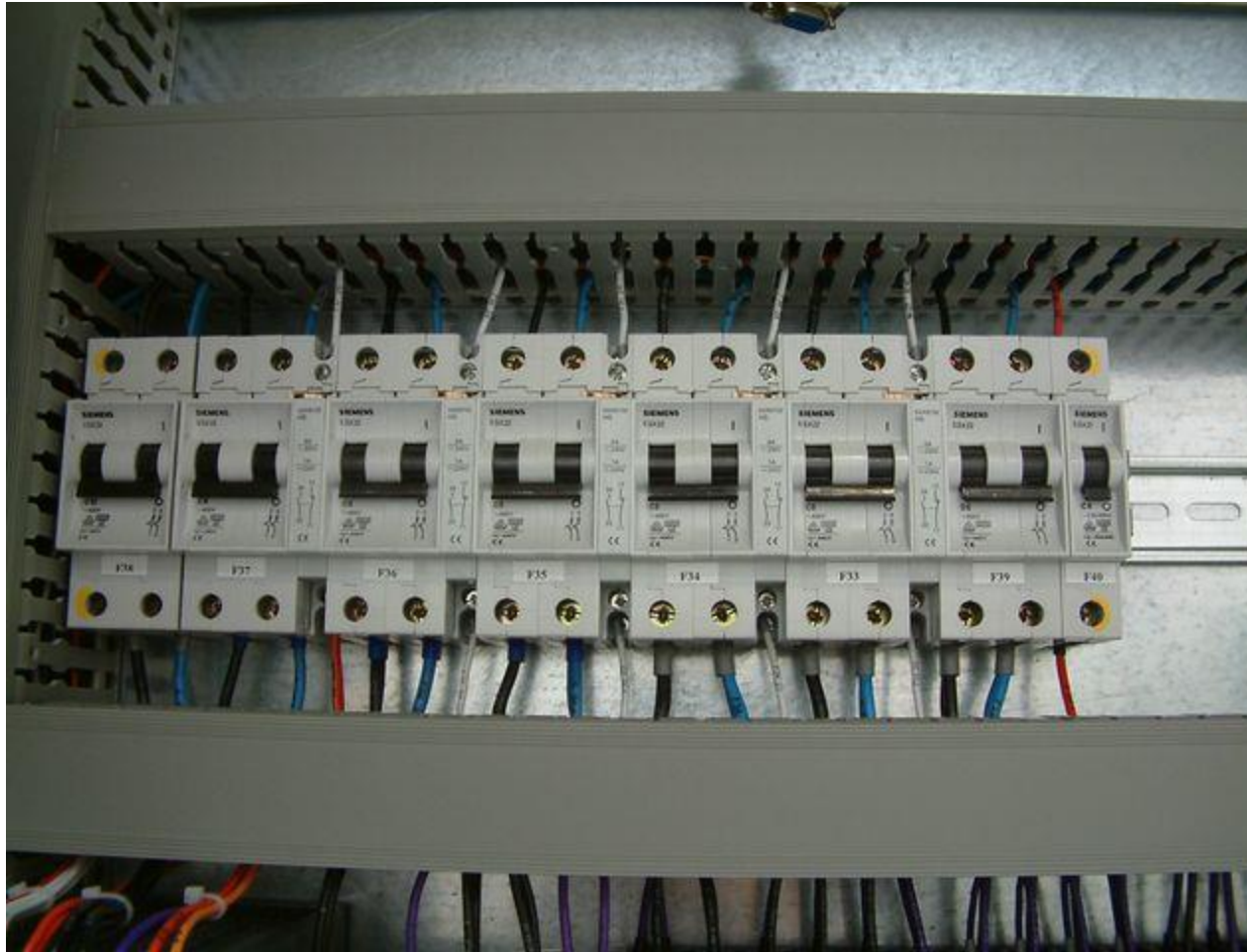
**Does this solve the problem?**

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

- **Explanation**  
**IN THE +AT2 PANEL:**

Check for any loose connections at the CB terminals.

If the CB is defective, replace it with new.



Check the 230V control circuit for any short circuits.

Check the Main CB trip supply and panel door switch supply for any short circuits.

Check the override pendent signal for any short circuit.

#### Part number for F34/F26 CB

Relevant spare parts	
Description	Item No.
MCB 5SX22067 6.0A C 2P	<a href="#">60005157</a>

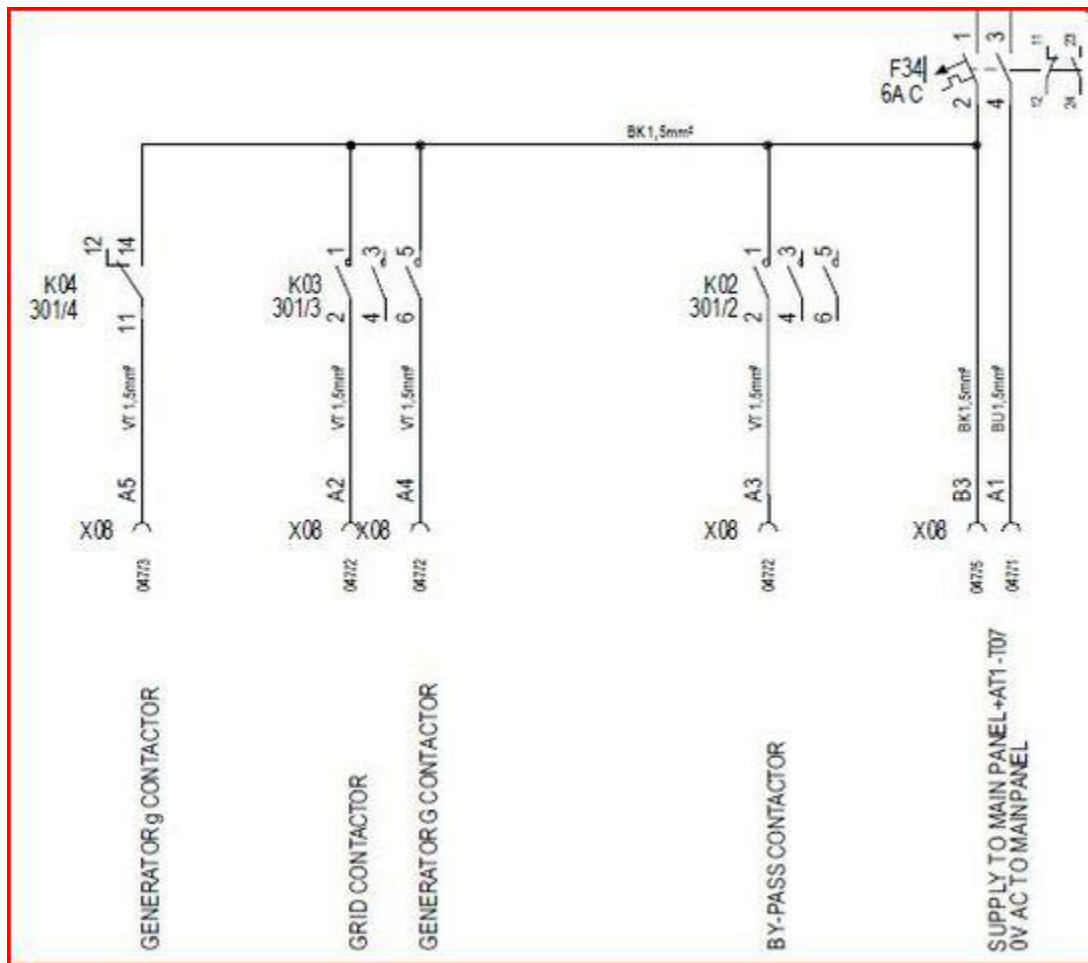


AUX CONTACT 5SX9100

[60005193](#)

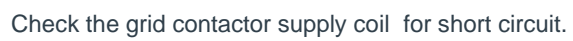
Check the 230V supply to the main panel circuits for any short circuit.

50Hz:



60Hz:







Check the by-pass contactor supply coil for short circuit.



**Check the circuit and replace the defective components**

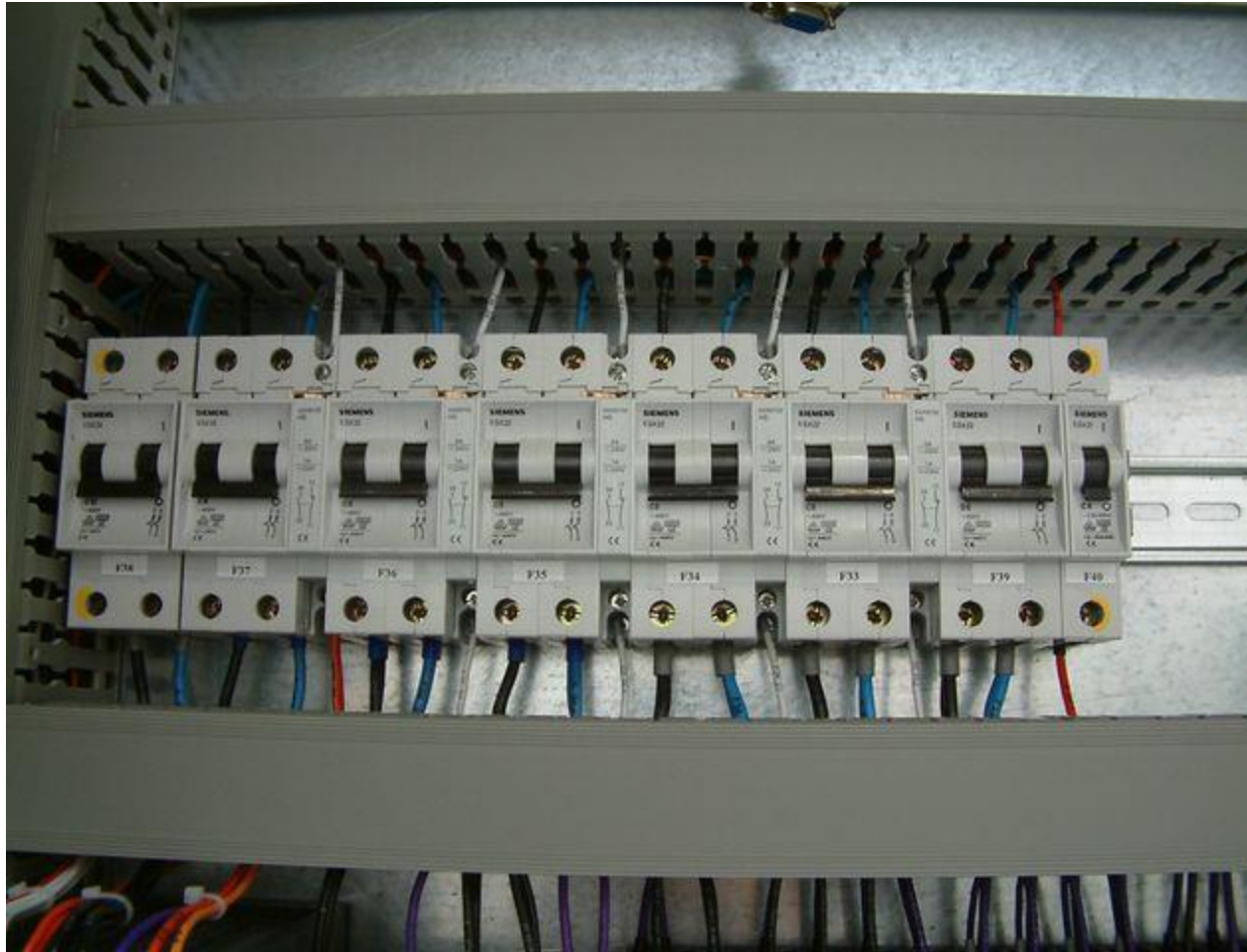
**Does this solve the problem?**

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

- **Explanation**  
**IN THE +AT2 PANEL:**

Check for any loose connections in CB terminals.

If CB is defective replace with new,



Check the 230V control circuit for any short circuits.

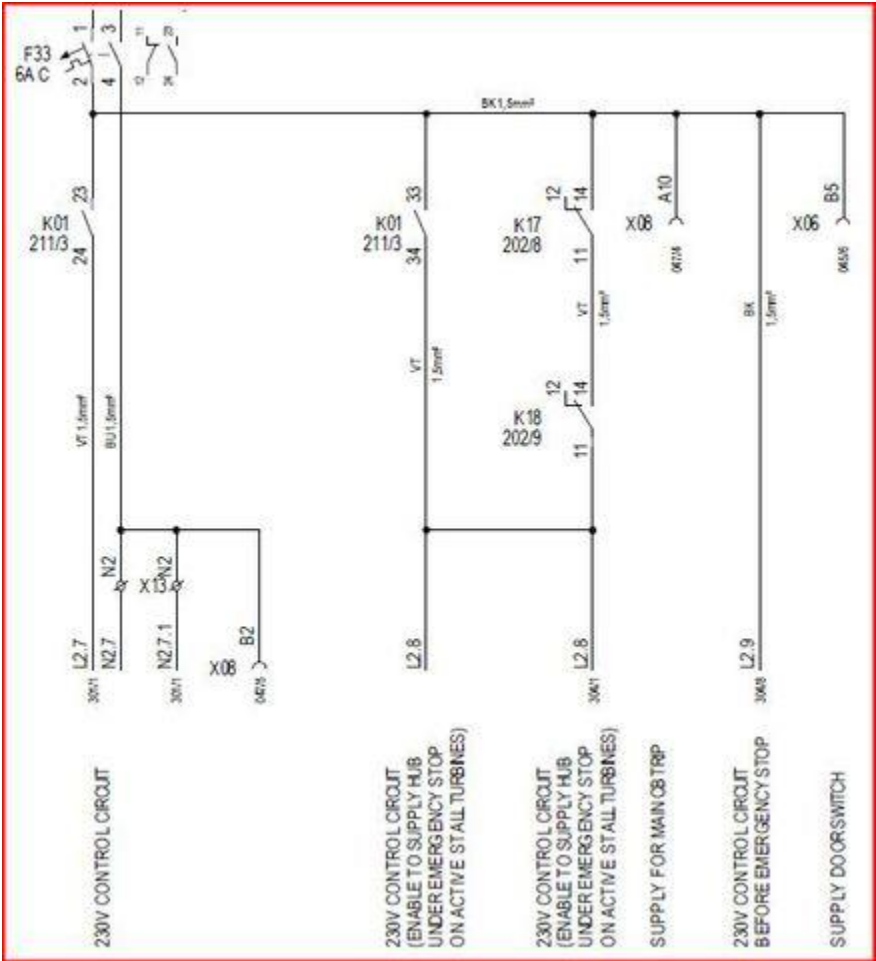
Check the Main CB trip supply and panel door switch supply for any short circuits.

Check the override pendent signal for any short circuit.

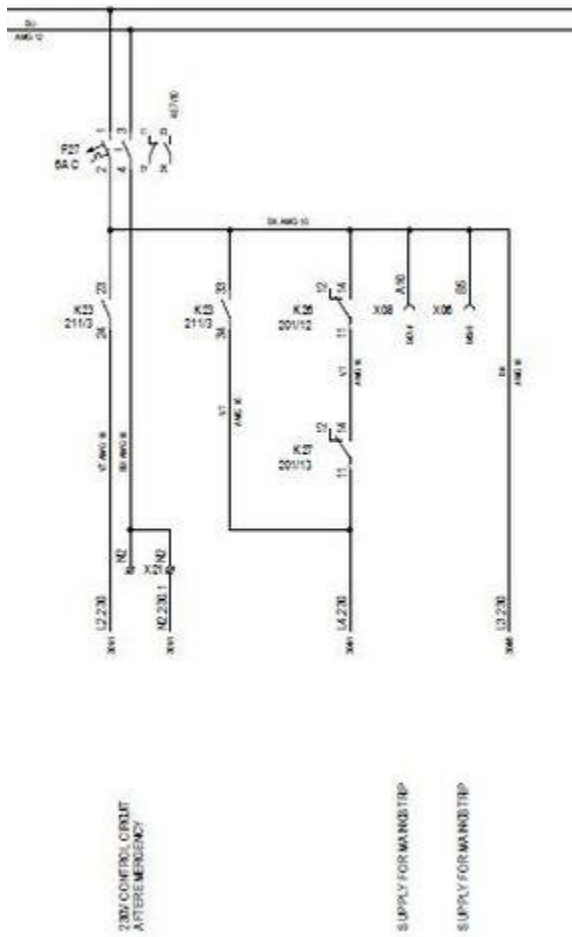
**Part number for F36/F27 CB**

Relevant spare parts	
Description	Item No.
MCB 5SX22067 6.0A C 2P	<a href="#">60005157</a>
AUX CONTACT 5SX9100	<a href="#">60005193</a>

50Hz:



60Hz:



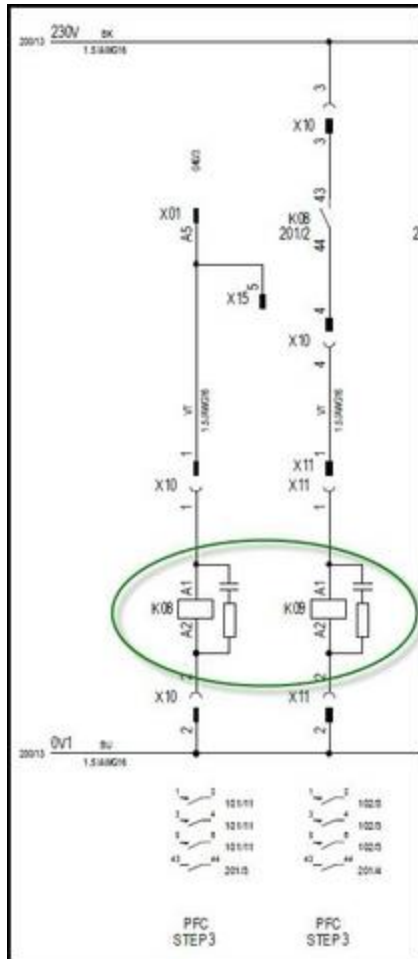
## IN +AT3 PANEL:

Check all capacitor Contactor coil for short circuit.

The contactor starts from number K01 to K12

These contactor coil supply feed through the F33 breaker.











#### Relevant spare parts

Description	Item No.
CONT K350K10230 W/RC-UNIT 230V	<a href="#">60096832</a>

**Check the circuit and replace the defective components**

**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**  
**IN THE +AT2 PANEL:**

Check for any loose connections at the CB terminals.

If the CB is defective replace with new.

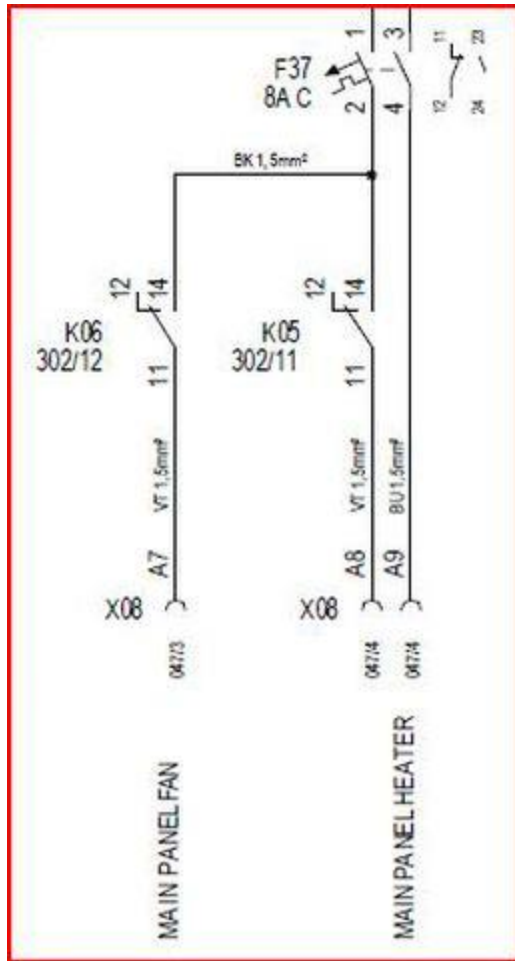


Part number for F37/F23 CB

Relevant spare parts - 50Hz (F37)	
Description	Item No.
MCB 5SX22087 8.0A C 2P	<a href="#">60005159</a>
AUX CONTACT 5SX9100	<a href="#">60005193</a>

Relevant spare parts - 60Hz(F23)	
Description	Item No.
MCB 5SX22067 6.0A C 2P	<a href="#">60005157</a>
AUX CONTACT 5SX9100	<a href="#">60005193</a>

50Hz:



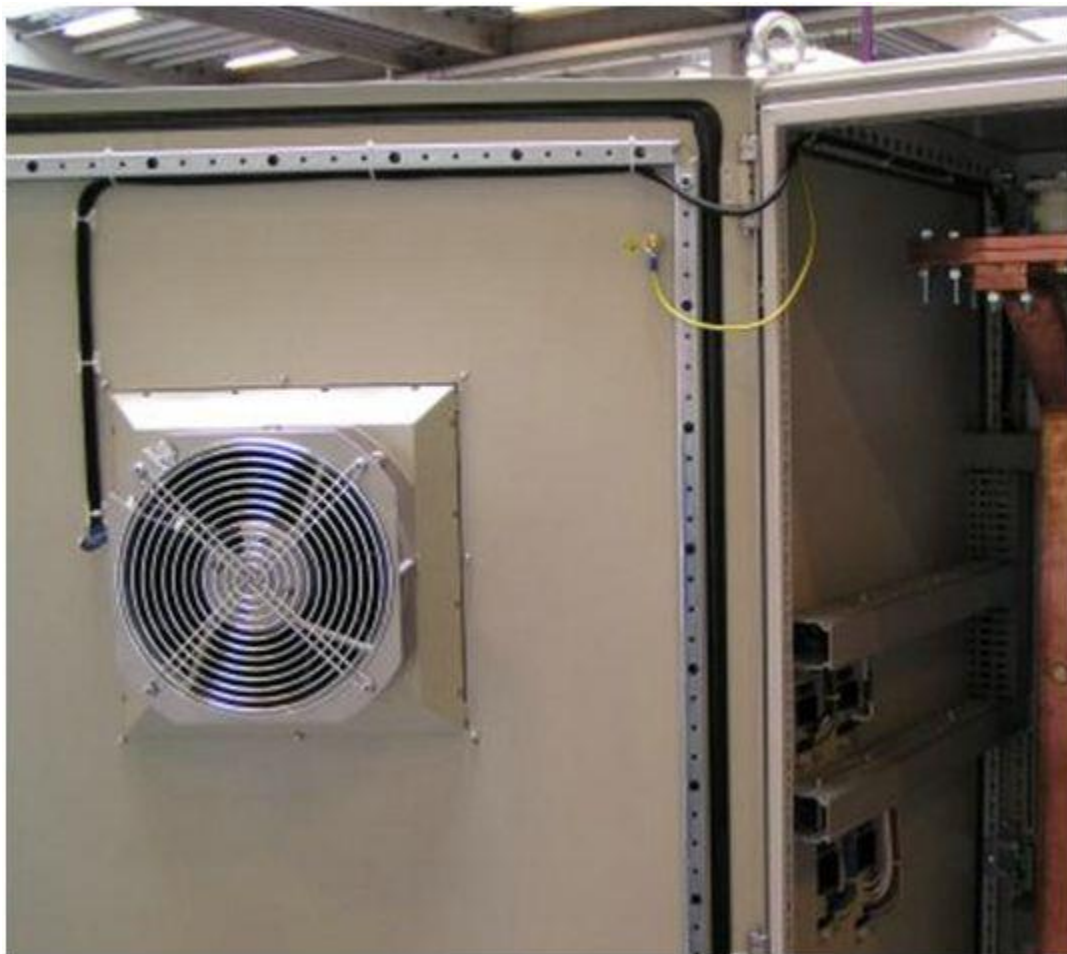
60Hz:



Check the control panel cooling fan/ capacitor, if defective replace the cooling fan/capacitor

Relevant spare parts	
Description	Item No.
FAN 500M3/H 230V	<a href="#">60014655</a>

CAPACITOR 2.5UF 400V	<a href="#">29058241</a>
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Check the main panel heaters, if defective replace the heater.

Relevant spare parts	
Description	Item No.



HEATER FAN CR0 27 475/550W	<a href="#">60014729</a>
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Check the thyristor cooling fan and replace, if defective.



Relevant spare parts	
Description	Item No.
FAN AXIAL 230V 97m3 120x120mm	<a href="#">092279</a>

**Check the circuit and replace the defective components**

**Does this solve the problem?**

1] Yes

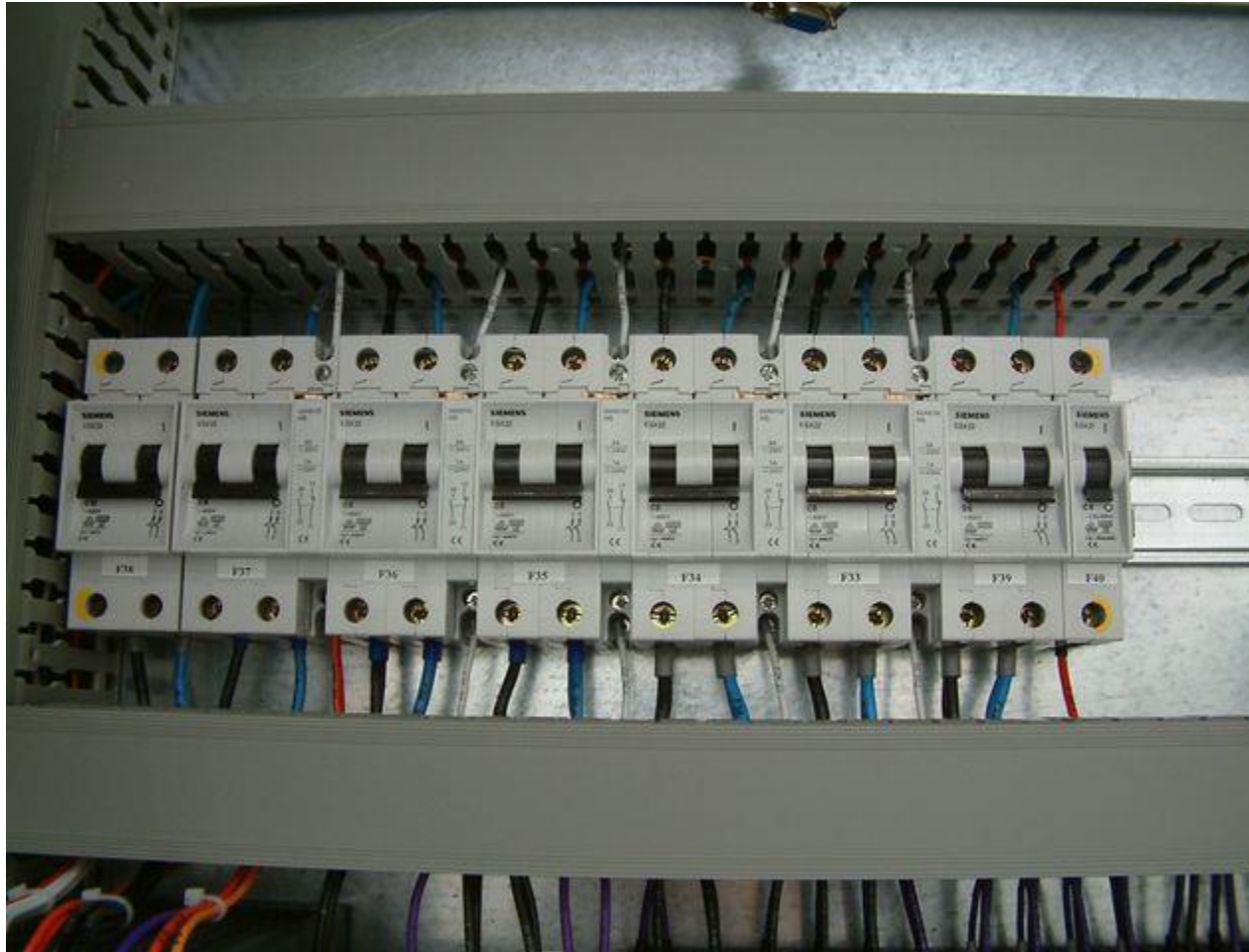
2] No

3] I don't know

- **Explanation**  
**IN THE +AT2 PANEL:**

Check for any loose connections at the CB terminals.

If the CB is defect replace with new.



Part number for F35/F25 CB:

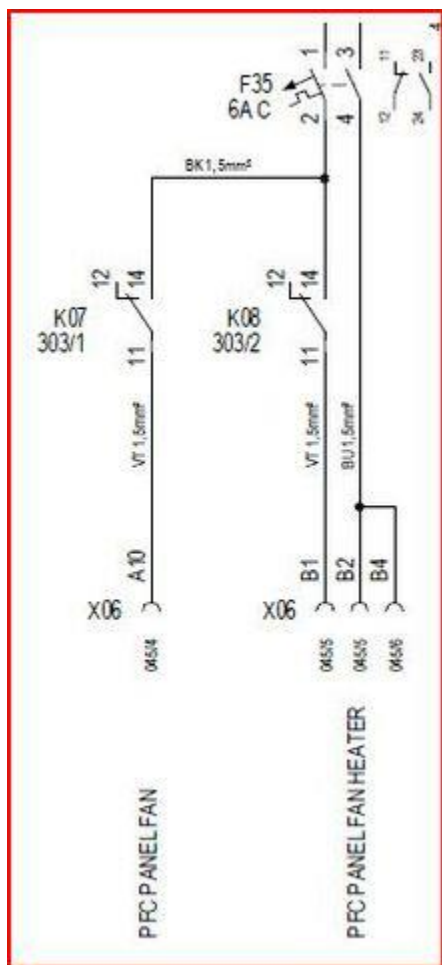
Relevant spare parts	
Description	Item No.
MCB 5SX22067 6.0A C 2P	<a href="#">60005157</a>

AUX CONTACT 5SX9100

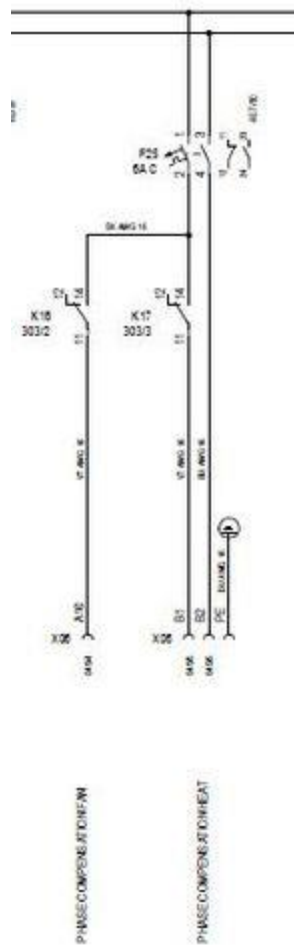
[60005193](#)

IN THE +AT3 PANEL:

50Hz:



60Hz:



Check the PFC panel cooling Fanand capacitor, if defective replace the cooling fan/capacitor.

Relevant spare parts	
Description	Item No.
FAN 500M3/H 230V	<a href="#">60014655</a>



CAPACITOR 2.5UF 400V	<a href="#">29058241</a>
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Check the PFC panel heaters, if defective replace the heater.

Relevant spare parts	
Description	Item No.
HEATER FAN CR0 27 475/550W	<a href="#">60014729</a>



**Replace the defective TOI**

**Does this solve the problem?**

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

- **Explanation**  
**IN THE +AT2 PANEL:**

Check the 24V presence to TOI 516 terminal; if the signal is present the TOI will most likely be defective since the signal is reaching the TOI but the TOI is not recognizing it.



If no signal is present, there is a feedback circuit problem.

Check for any loose connections in the circuits.

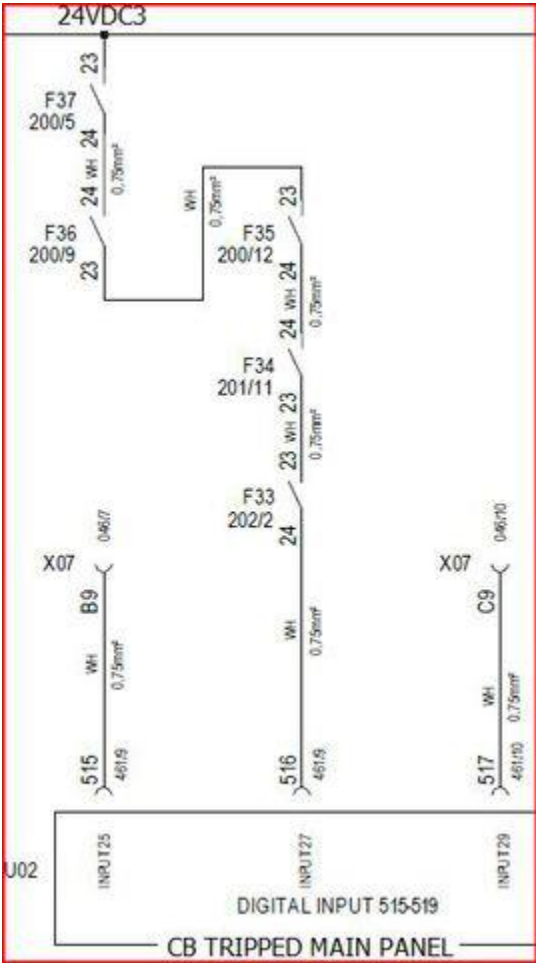
If any of the following circuit breakers are tripped, the alarm will be raised.

(50Hz-F33/F34 /F35 /F36 /F37) (60Hz-F23/F24/F25/F26/F27).

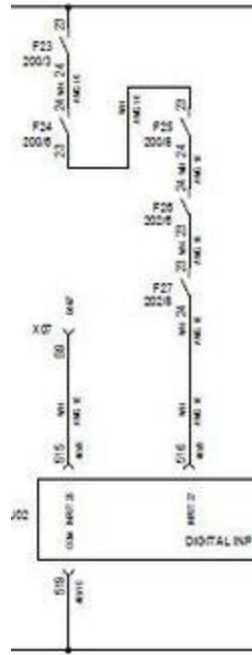
Relevant spare parts	
Description	Item No.
TOI-II INTERF NM1500 TOWER	<a href="#">51701501</a>



50 Hz:



60Hz:



TRANSISTOR USE

CIS TRIPPED MINI PANEL

