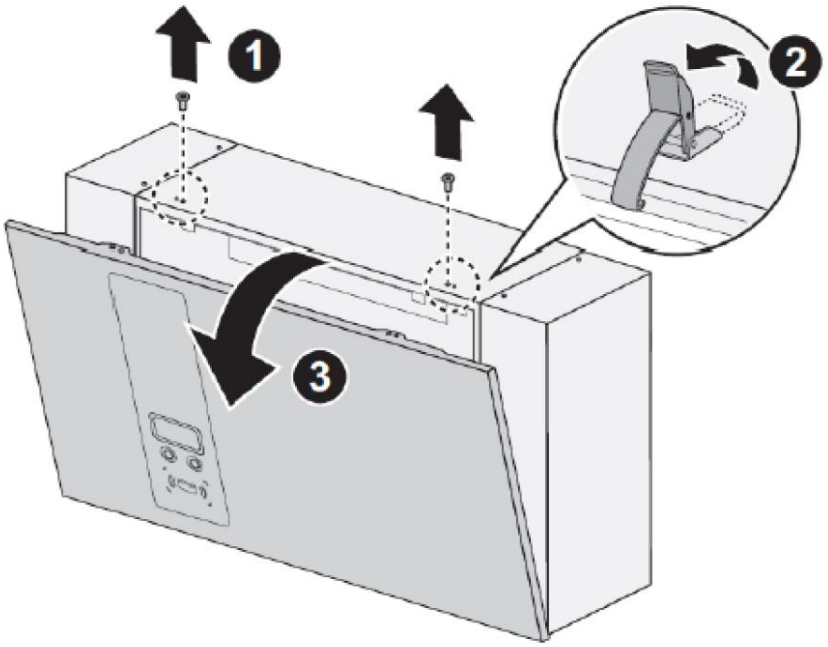
DC Wallbox

Check AC Contactor

May 4, 2020

D025_v1.0

Open front cover



① Release two screws on top (T15)

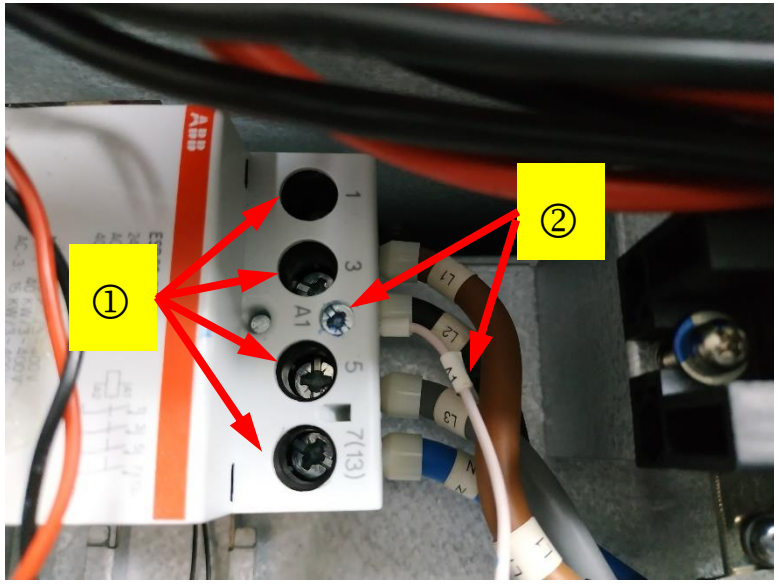
② Release the latches to open front cover

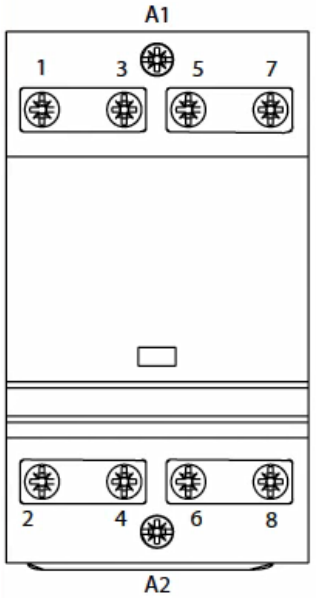
③ Put down front cover gently

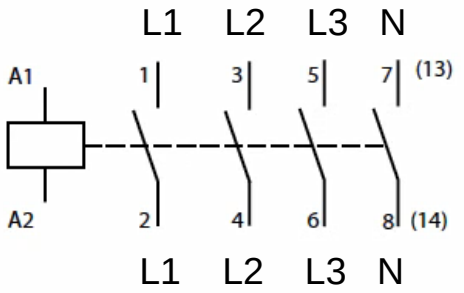
Diagram

- Preparation:

  Make sure all cables on AC contactor are connection well and locked







① AC input power cables

② 24V aux. power cable

Pin A1, A2 = 24V aux. power cable
Pin 1, 3, 5, 6 = AC input power cables
Pin 2, 4, 6, 8 = output power cables connected to SMR

Check “AC welding”

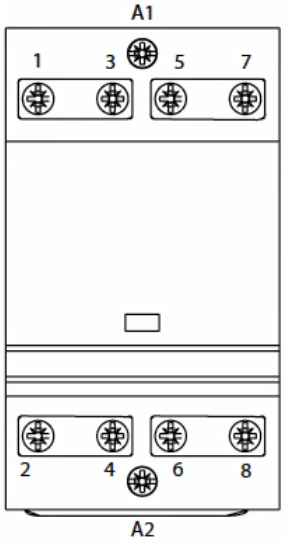
- Check the contactor if it is AC welding
  1. Key-off DCWB
  2. Measure the voltage between Pin A1 and Pin A2. It should be no power.
  3. Check Pin 1-to-Pin 2, it should be OPEN. If it is SHORT, AC contactor is faulty.
  4. Check Pin 3-to-Pin 4, it should be OPEN. If it is SHORT, AC contactor is faulty.
  5. Check Pin 5-to-Pin 6, it should be OPEN. If it is SHORT, AC contactor is faulty.
  6. Check Pin 7-to-Pin 8, it should be OPEN. If it is SHORT, AC contactor is faulty.

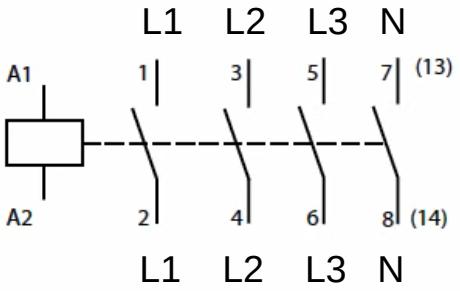
Check “Driving fault”

- Check the contactor if it is driving fault
  1. Key-on DCWB
  2. Make sure the emergency button is not pressed
  3. Start charging, and CAREFULLY for the following steps.
  4. Measure the voltage between Pin A1 and Pin A2, and it should be 24V
  5. Check Pin 1-to-Pin 2, it should be SHORT; otherwise, AC contactor is faulty
  6. Check Pin 3-to-Pin 4, it should be SHORT; otherwise, AC contactor is faulty
  7. Check Pin 5-to-Pin 6, it should be SHORT; otherwise, AC contactor is faulty
  8. Check Pin 7-to-Pin 8, it should be SHORT; otherwise, AC contactor is faulty

Check “Driving fault”

- Another method to check the contactor if it is driving fault
  1. Key-on DCWB
  2. Make sure the emergency button is not pressed
  3. Start charging, and CAREFULLY for the following steps.
  4. Measure the voltage between Pin A1 and Pin A2, and it should be 24V
  5. The voltage between Pin1 and Pin7 is the same as the voltage between Pin2 and Pin8
  6. The voltage between Pin3 and Pin7 is the same as the voltage between Pin4 and Pin8
  7. The voltage between Pin5 and Pin7 is the same as the voltage between Pin6 and Pin8





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