

## Customer Advisory Notice

**Reference:** PRB-213063

**Date:** 26<sup>th</sup> July 2018

**Subject:** Evolis Medium Voltage up to 17,5kV Circuit Breaker (CB), installed with Undervoltage Release (MN coil), supplied in Australia since January 2005.

Schneider Electric is committed to ensuring that our customers and employees are kept updated on cases that might affect or improve product, system and/or process operation. This notice is intended to inform you of the following situation that may occur on Evolis CBs installed with Undervoltage Coil (MN) supplied since January 2005. Schneider Electric recommends our customers to carefully read the following notice, and follow the actions as described if their equipment is affected.

### Situation

In 2005, a shock absorber vibration pad was introduced to improve resistance to very heavy vibrations and shocks for the Evolis Undervoltage Release (MN coil). To cater for the extra thickness of the vibration pad (refer Fig. 1), a “longer pin” MN coil was also introduced. Refer vibration pad (item 8) in diagram on the right.

Recently, one case has been reported to Schneider Electric that the Evolis CB did not open when the MN coil was deenergised via the control circuit.

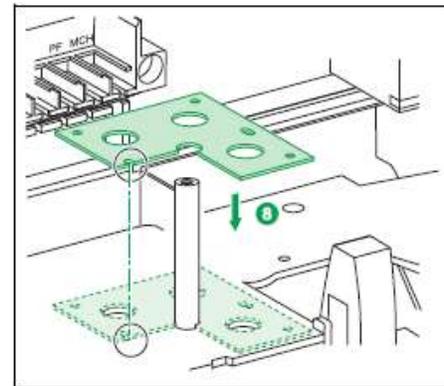


Fig. 1

Our technical expert assessment found that the MN coil was out of position and a “3mm short pin” MN coil (e.g. ref. 33670) was installed when a “5mm long pin” MN coil (e.g. ref. 59290) should have been used. Refer to following diagrams.

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Fig. 2 Types of MN coil position

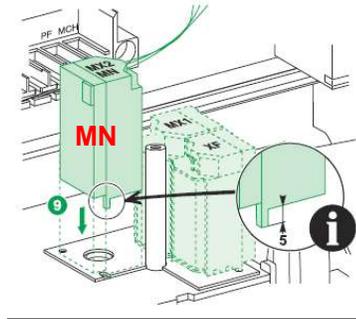


Fig. 3 Normal positioning of MN coil



Fig. 4 MN coil found out of position (with vibration pad underneath)

The “3mm short pin” MN coil with its vibration pad may have been dislodged due to excessive external vibrations or heavy shock. An out of position MN coil may not be able to trip (open) the Circuit Breaker. However, the Circuit Breaker can still be tripped (opened) with the Shunt Trip (MX coil) or via the manual OFF button.

Other tripping coils used in Evolis CBs, such as MX shunt trip coil and the XF closing coil, are **not** impacted by this issue.

Even though MN coils have been used in Evolis CBs with vibration pads since 2005, there has only been one reported event since 2005, and therefore it is considered that the risk is very low for the MN coil to be dislodged due to vibrations. However, Schneider Electric recommends that customers carry out an assessment of their Evolis Circuit breakers installed with MN coils. Please refer to the recommended actions below.

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## Recommended actions

### HAZARD OF ELECTRIC SHOCK

**Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See standards or local equivalent.**

You will need to identify if your Evolis CB has been manufactured after 2004 and a MN coil is installed.

Evolis CB has 2 labels and rating plates (Fig. 5) i.e. (F) and (K):

- A: Lifting ring
- B: Low voltage connection
- C: Charging lever
- D: Closing button
- E: Opening button
- F: Performance plate
- G: Mechanical indicator for operating mechanism charging
- H: Mechanical indicator for circuit breaker status
- J: Counter
- K: Serial number and year of manufacture

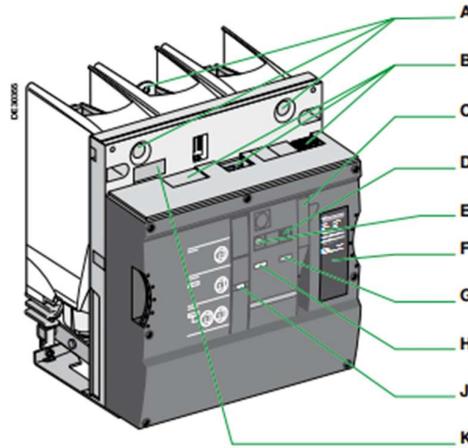


Fig. 5



Fig. 6 Label 'F'

Note that the front label (F) provides only information on electrical performance of the circuit breaker. There is no evidence of MN coil presence. Please find an example above.

- 1) To access label (K) remove the top cover (Fig. 7):
- 2) Read serial number on the CB label K (Fig. 8) to confirm if your Evolis CB was manufactured **after** 2004.

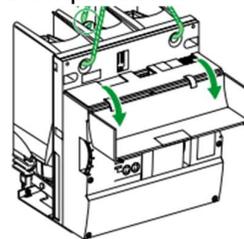


Fig. 7



Fig. 8

To find manufacturing year in serial number (as per example):

Current Serial number format:

SE-**2011**-W28-1-0027: 2011 is for year 2011

Previous Serial number format:

D2SE**04**50049: 04 is for year 2004

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3) Determine if your Evolis CB has an MN coil installed. This can be done:

- a. By checking the rating label K (Fig. 8)
- b. Or checking the testing table on the top of the cover (Fig. 9)

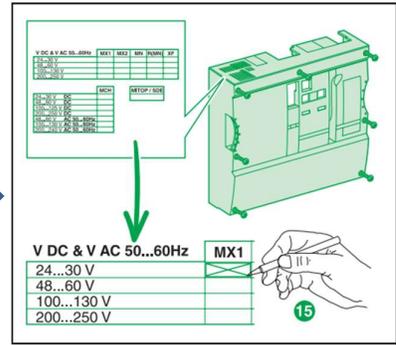


Fig. 9

### HAZARD OF ELECTRIC SHOCK

*Following primary voltage isolation procedures, it is recommended that the CB is deenergised and the charging springs discharged, before the following operation is carried out.*

4) If item 3) determined that an MN coil is installed in the CB, remove the front cover (Fig. 10) and locate the MN coil (Fig. 12). Then identify the reference number written on the MN coil. Refer below picture (Fig. 11).

- a. If there is **no** vibration pad fitted, then either “3mm short pin” MN coil references or “5mm long pin” MN coil references can be used.
- b. If there **is** a vibration pad fitted, then **only** “5mm long pin” MN coil references are to be used:

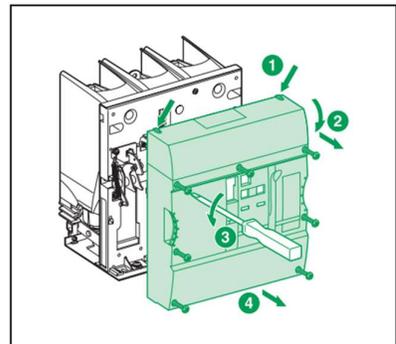


Fig. 10

Type	Reference	Voltage
3mm short pin	33668	24-30Vdc - 24V 50-60Hz
3mm short pin	33669	48-60Vdc - 48V 50-60Hz
3mm short pin	33670	100-130V dc-50-60Hz
3mm short pin	33671	200-250V dc-50-60Hz
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5mm long pin	59288	24-30Vdc - 24V 50-60Hz
5mm long pin	59289	48-60Vdc - 48V 50-60Hz
5mm long pin	59290	100-130V dc-50-60Hz
5mm long pin	59291	200-250V dc-50-60Hz

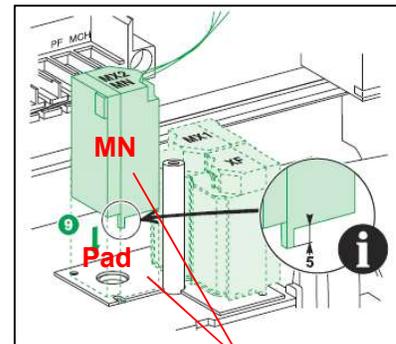


Fig. 12 Location of MN coil and Vibration pad



Fig. 11 Location of Reference Number on the MN coil

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## Replacement Parts

If you identify that a “3mm short pin” MN Coil is fitted with a vibration pad in your Evolis CB, please contact our Customer Care Technical Support Help Desk by e-mail: [techsupport.pz@schneider-electric.com](mailto:techsupport.pz@schneider-electric.com) to request a replacement MN coil by providing the following required information:

- Circuit Breaker model (e.g. Evolis )
- Voltage / Current Rating
- Serial Number
- rubber vibration pad fitted
- MN Coil Reference No.
- Installation location
- End user name (If applicable)
- Picture of MN Coil (If possible)

Schneider Electric highly recommends that the MN coil is replaced by a qualified electrical technician.

Regards,

Athrish CHIDAMBARA

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*The information in this document, including products and software versions, is current as of the Release Date*