Technical Service Bulletin

Technical Service Bulletin: TSB220144	**Released Date**: 13-Jun-2023
Cummins Field Action Campaign #4835: Inspection of ComPact NSX 400A-630A and EasyPact CVS 400A-630A Molded Case Circuit Breakers, from Schneider Electric	

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Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Contents

Products Affected

C175D5B	C350D5	C440D5	C100D6	C175D5E	C275D5	C330D5E
C200D5	C350D5B	C450D5	C110D5	C175D6E	C275D6	C145D6
C220D5	C350D6	C450D5EB	C135D6	C200D5E	C300D5	C110D2R
C275D5B	C400D5	C60D6E	C150D5	C200D6E	C300D6	C90D6B
C300D5B	C400D5EB	C80D6	C150D6E	C220D5E	C300D6E	C110D6B
C330D5B	C400D6	C90D6	C170D5	C250D6	C330D5	C65/1D6

Table 1, List of potentially affected generator set models

Issue

Schneider Electric has notified Cummins that a population of ComPact NSX 400-630A and EasyPact CVS 400A-630A Molded Case Circuit Breakers (MCCB) may contain “a nonconforming component in its mechanism that may result in the circuit breaker not operating as intended under certain conditions." Cummins is campaigning these generating sets to implement a Product Notice issued by Schneider Electric.

Verification/Confirmation

Document **TSB220144-A Cummins Field Action Campaign #4835: Inspection of ComPact NSX 400A-630A and EasyPact CVS 400A-630A Molded Case Circuit Breakers, from Schneider Electric** contains the list of generator set serial numbers potentially affected by this Field Action Campaign.

Cummins requires that these generator sets be inspected and necessary actions be taken.

To determine if a particular MCCB is impacted, please follow the “Date Code Identification Guidance” below, per the Schneider notice, PRB-233066.

Comply with local safety procedures and Lock-Out Tag-Out the unit before beginning to inspect the date code. Please refer below regarding safe electrical working practices from Schneider Electric.

Safety instructions for any intervention including product date code identification.



Figure 1, Safe Working Practices

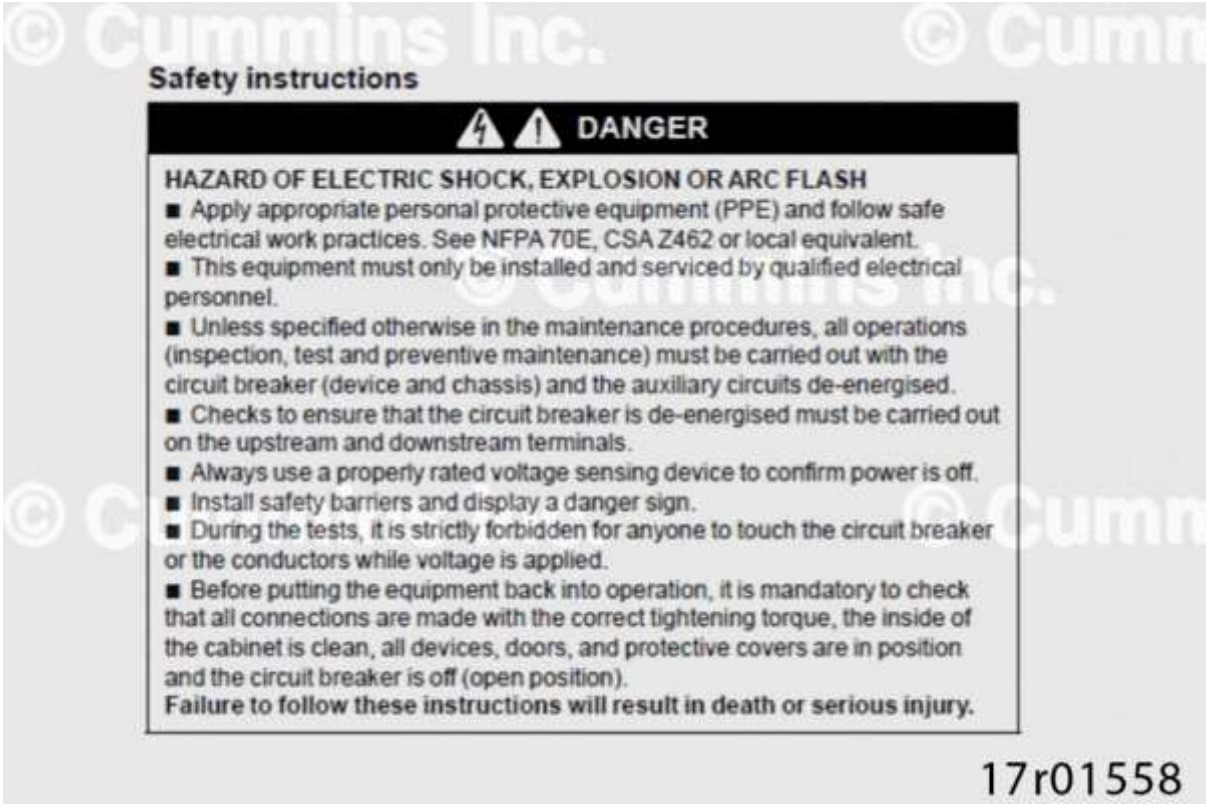


Figure 2, Additional Safe Working Practices

Date Code Identification Guidance

There are 2 options to inspect the date code.

If the breaker is **not** impacted, place a green OK sticker or blue round dot sticker on the circuit breaker to represent “Inspected and not impacted.” Reference to “Service Instruction” section for claim filing information for breaker inspection.

Note: The Date Code of the circuit breaker MUST be mentioned in the claim description

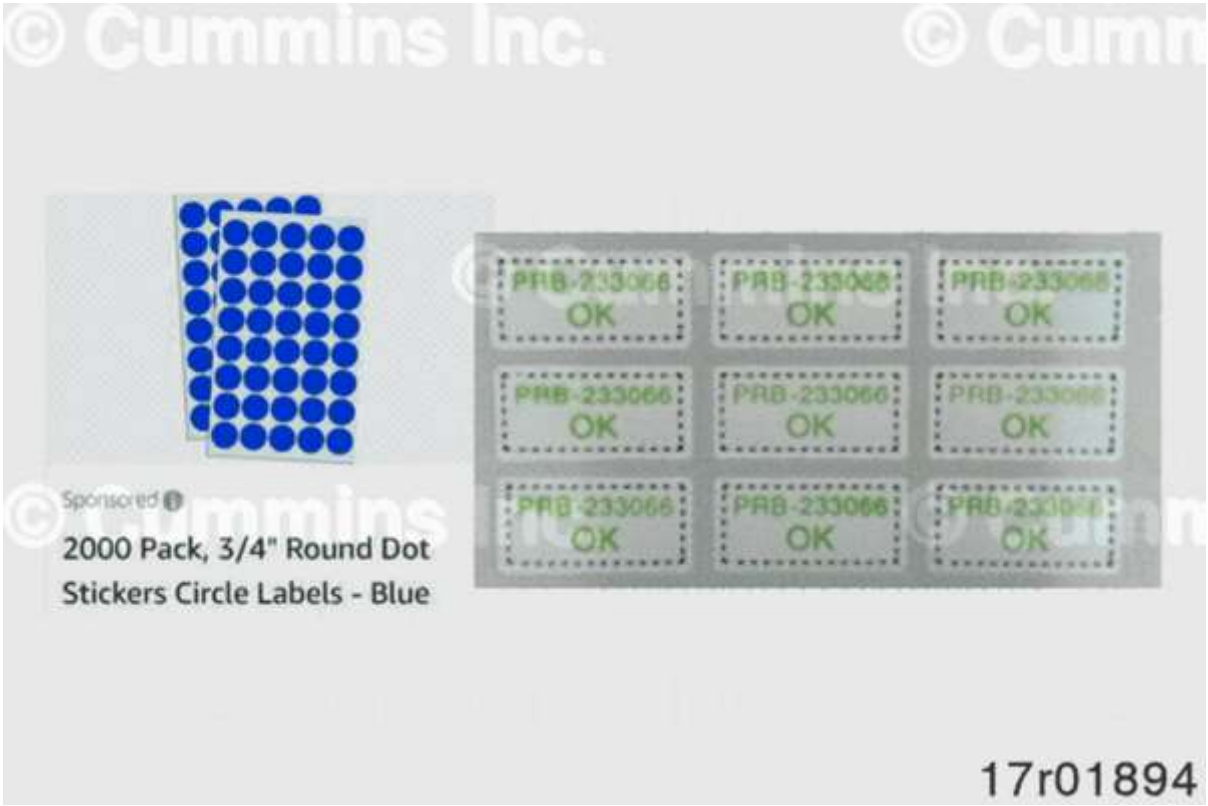


Figure 3, Example of stickers

Option 1: Inspect date code on side label of the MCCB (For the EasyPact CVS MCCBs, this is the only way to inspect date code)

Check if the date code, starting with “TC”, is within the date code range of table 2. If it is, then it can be confirmed that the breaker is impacted. Please refer to Service Instructions of TSB. If it is not within the date code range or it does not start with “TC”, then the breaker is not impacted, place a dot sticker to signify the breaker was inspected. If the date code on the side label is not legible, use “Option 2” to inspect the date code.

Impacted Date Code range	Interpretation of the date code

TC-2019-W21-3 to TC-2019-W22-2 TC-2019-W24-2 to TC-2019-W24-4 TC-2019-W46-2 to TC-2019-W47-3 TC-2019-W51-5 to TC-2021-W14-4	TC-2021-W38-4 means made on 4th day of 38th week of 2021
Table 2: Date code range for side label	



Figure 4: Side label with date code on the MCCB

Note: Generator set serial numbers containing “T” in fourth digit (built in Brazil) with EasyPact CVS 400A-630A MCCBs will have the above-mentioned date code label covered by another top-label. In these cases, for inspection purposes, carefully remove the top-label that covers the date code label. A heat blower or a small screwdriver can be used to remove the top-label without damaging the date code label. If it is not possible to remove the top-label or if the date-code label gets damaged, then consider the circuit breaker to be affected by this campaign. Refer to Figure 5 below.



Figure 5: Top-label removal

Option 2: Inspect date code on middle cover

If the date code is hidden by terminal shield, then take off the terminal shield by loosening the 2 screws highlighted in Figure 6.



Figure 6: Terminal shield removal

Check if the date code, starting with “TC”, is within the date code range of table 3. If it is, then it can be confirmed that the breaker is impacted. Please refer to Service Instructions of this TSB. If it is not within the date code range or it does not start with “TC”, then the breaker is not impacted, place a dot sticker to signify the breaker was inspected.

Impacted Date Code range	**Interpretation of the date code**
TC19213 to TC19222 TC19242 to TC19244 TC19462 to TC19473 TC19515 to TC21144	TC21384 means made on 4th day of 38th week of 2021

Table 3: Date code range



Figure 7: Date code on middle cover

Schneider Electric Part Number of MCCB	Cummins Part Number of MCCB
CVS400F3400	A043Y988
CVS630F3630	A043Y990
LV432893	B3210112-03
LV432893	A034H826

LV432693	B3210112-01
LV432694	A034H829
LV432894	A034H832
LV432676	A034J457
LV563505	A049W294
LV563506	A049W299
INA_6N4PFE20120	A052L430
LV540306	A049W293
LV540309	A049W298
LV432677	A034J461
LV432876	A034J459
LV432877	A034J463
Table 4: Affected MCCB models	

Resolution

Impacted breakers will need to be repaired according to the repair procedure provided by Schneider Electric. Refer to the Service Instructions of the TSB for details.

Service Instructions

1. Verify if the unit is affected by inspecting the date code. Refer to section "Verification/Confirmation" of the TSB.

2. Breakers which are identified as impacted based on the date code will need to be repaired. For repair, contact Schneider Electric directly, refer to Table 5 below. Schneider Electric will provide information on repair procedure and parts required.

2a.If the breakeri is repaired, test-run the generator set to check for its normal operation after the repair work is completed.

2b. Place a green OK sticker or blue round dot sticker on the circuit breaker to represent repaired.

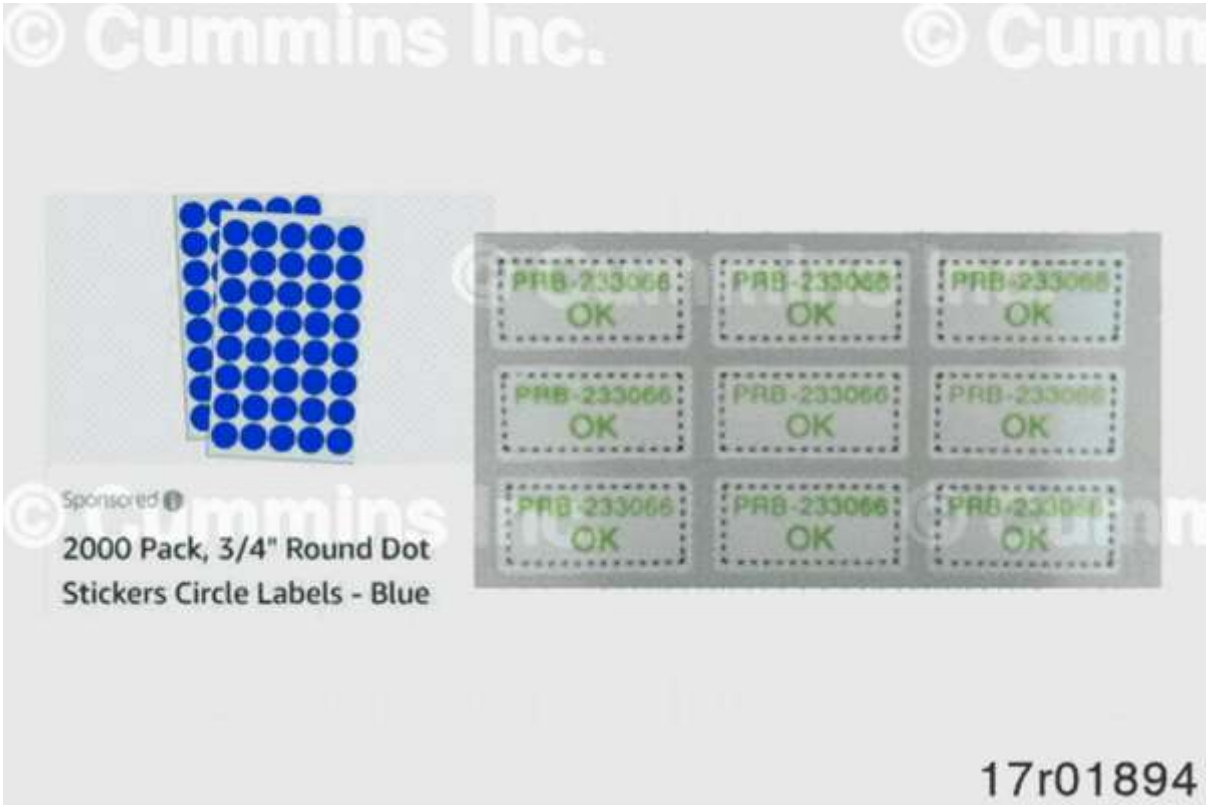


Figure 8, Example of sticker

3. Submit claim as per below authorization details

4. Campaign Authorization Details

Authorization Code: 4835

Account Code: 65

Fail Code: GK-CB-WP

Complaint section **MUST** include:

Customer Name and Address

Breaker date code

Parts – Provided at no costs, mention PRB-233066 (Technician to work with Schneider Electric for repair. See Table 5 below for Schneider Country Contacts).

Travel: Allowing no more than 2 trips. 1 trip for the inspection and 1 trip, if needed, to repair the breaker.

Expiration Date - April 30th, 2024.

If the breaker is impacted, only repair of the breaker is typically required. In an atypical case, however, where removal and replacement of breaker is performed, proof of removal of Affected Breaker from customer site and scrapping certificate of any identified Affected Breaker that has been replaced further to Remediation and scrapped in accordance with the relevant local environmental standards will be needed.

5. SRTs (a. or b.)

5a. SRTs for inspection of date code – 0.4 hours total

00-90F – Admin time – 0.2

17-107 – Circuit breaker panel R&I – 0.2

Includes:

Disconnect/connect battery

Disconnect/connect generator from bus

Remove/install main circuit breaker cover panel (to access the side label)

5b. SRTs for inspection of date code and repair of breaker – 1.4 hours total

Trip 1: Inspection of date code - 0.4

Trip 2: 00-90M – Admin time and 17-107 – Circuit breaker panel R&I – 0.4

99-999: Repair the breaker – 0.3

14-705: Generator set – Test run with no load – 0.3

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