

## Product change notification (PCN)

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| <b>Title / short description</b>   | CBM - electronic redesign                 |
| <b>Affected article category</b>   | Protective devices                        |
| <b>Change category</b>             | Function                                  |
| <b>Change number</b>               | CCL240089-01                              |
| <b>Reason for PCN/PDN Revision</b> | UL requirement added to the documentation |

### Purpose/objective of the change

Product optimization, Documentation

### Detailed description of the change

Due to the discontinuation of a relevant component of the core function, the electronic CBM multichannel circuit breakers have been redesigned.

The external design including the dimensions and handling remain unchanged.

The following improvements have been made as part of the change:

Undervoltage switch-off:

The lower voltage threshold has been lowered from 17.8 V to 15.8 V, the behavior of the undervoltage switch-off remains unchanged.

If the voltage exceeds 16.5 V, the undervoltage switch-off becomes inactive and the channels switch back to the previous state.

Energy consumption:

Energy consumption is reduced by up to 50 % during operation.

Initialization time:

The initialization time has been reduced. (E8 module 2 seconds, E4 module 1.6 seconds)

Optimization of the instruction manual.

UL requirement regarding the minimum environment temperature for copper cables changes from generally > 90 °C to 90 °C @ < 60 °C environment temperature and 105 °C @ >= 60 °C environment temperature.

### Identifying characteristics

The V/C on the product and packaging label will be incremented.

|                                  |            |                                 |   |
|----------------------------------|------------|---------------------------------|---|
| <b>Start of Production (SOP)</b> | -          | <b>Last Time Delivery (LTD)</b> | - |
| <b>Effective date (EOP)</b>      | 2025-11-01 | <b>End of Service (EOSR)</b>    | - |
| <b>End of Sales (EOS)</b>        | -          |                                 |   |

### Short-term change (< 6 months) or discontinuation (< 12 months), due to:

- |                                                     |                                                                     |                                                        |
|-----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Software / Firmware Bugfix | <input type="checkbox"/> Short-term delivery stop by supplier       | <input type="checkbox"/> Short-term recall by supplier |
| <input type="checkbox"/> Force majeure              | <input type="checkbox"/> Product improvement with customer benefits |                                                        |
| <input checked="" type="checkbox"/> Others          |                                                                     |                                                        |

New revision of the PCN, the initial PCN was released > 6 months before change.

### Attachments

- Material\_list.csv
- PCN-CCL240089-01\_EN

## Material list

| Item no. | Item Type                | Hardware old | Firmware new | Item no. | Substitute item Type |
|----------|--------------------------|--------------|--------------|----------|----------------------|
| 2905743  | CBM E4 24DC/0.5-10A NO-R | 11           | 12           |          |                      |
| 2905744  | CBM E8 24DC/0.5-10A NO-R | 14           | 15           |          |                      |