



Product / Process Change Notification (PCN)

- ☒ Major change
☐ Minor change

PCN #: PCN_UtPoE Mid_20240613

Affected Series: WE-PoE Mid; 750319021

PCN Date: March 13, 2024

Effective Date: June 13, 2024

Change Category:

- ☐ Equipment / Location
☒ General Data
☐ Material
☐ Process
☒ Product Design
☐ Shipping / Packaging
☐ Supplier
☐ Software

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Data Sheet Change:

- ☒ Yes ☐ No

Attachment:

- ☐ Yes ☒ No

Description and purpose of change:

In order to enhance the product reliability, Würth Elektronik will update the wires used on the primary (N1), secondary (N2), and auxiliary (N3) windings. In addition, the leakage inductance and DC resistance on auxiliary (N3) winding will be updated.

There will be no change in form, fit, or quality of the product.

Detail of Change:

The wires used on the primary, secondary, and auxiliary windings will be updated:

Winding	Before Change	After Change
Primary (N1)	Two SPN180 °C 44x38AWG litz wires	Twelve HP180 °C 31AWG
Secondary (N2)	One HP180 °C 105x41AWG litz wire and two SPN180 °C 44x38AWG litz wires	Three HP155 °C 7x30AWG litz wires
Auxiliary (N3)	One HP180 °C 32AWG wire	One HP180 °C 31AWG litz wire



The leakage inductance and DC resistance of auxiliary (N3) winding electrical specifications will be updated

Electrical Specification	Before Change	After Change
Leakage inductance	750 nH max.	700 nH max.
DC resistance of auxiliary (N3) winding	125 mΩ ±10%	105 mΩ ±15%

Reliability / Qualification Summary:

- High Temperature Exposure: Reference Standard: MIL-STD-202-108
- Temperature Cycling: Reference Standard: JESD22 Method JA-104
- Biased Humidity: Reference Standard: MIL-STD-202-103
- External Visual: Reference Standard: MIL-STD-883-2009
- Physical Dimension: Reference Standard: JESD22 Method JB-100
- Resistance to Solvents: Reference Standard: MIL-STD-202-215
- Mechanical Shock: Reference Standard: MIL-STD-202-213
- Vibration: Reference Standard: MIL-STD-202-204
- Resistance to Soldering Heat: Reference Standard: J-STD-020
- Solderability (SMD): Reference Standard: IPC-A-610
- Electrical Characterization: Reference Standard: User Spec.
- Board Flex: Reference Standard: AEC-Q200-005
- Terminal Strength (SMD): Reference Standard: AEC-Q200-006
- Low Temperature Storage Life: Reference Standard: JESD22-A119

Sample Size according to AEC-Q200 standard