



Certificate Number: 121516X2-A77

Date: 2017-02-27

## UL CONDITIONS OF ACCEPTABILITY

**Company Name:** TRACO ELECTRONIC AG

**File-CCN:** E188913-QQGQ2

**Product Description:** DC-DC Converter

**Models:** TEL 8-2410WI, TEL 8-2411WI, TEL 8-2412WI, TEL 8-2413WI, TEL 8-2415WI, TEL 8-2422WI, TEL 8-2423WI, TEL 8-4810WI, TEL 8-4811WI, TEL 8-4812WI, TEL 8-4813WI, TEL 8-4815WI, TEL 8-4822WI, TEL 8-4823WI

### Conditions Of Acceptability:

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- The end-product Electric Strength Test is to be based upon a maximum working voltage of: 97.5 Vrms, 228 Vpk
- The following secondary output circuits are SELV: Output terminal of all models. (and also been evaluated as ES1 circuit for UL/CSA 62368-1 2nd edition)
- The following secondary output circuits are at non-hazardous energy levels: Output terminal of all models.
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The investigated Pollution Degree is: 3
- The following end-product enclosures are required: Mechanical, Fire, Electrical
- Input test and all thermal related tests should be considered in end product investigation.
- The outputs of this component DC-to-DC converter has been evaluated for PS1 and ES1 (SELV circuit); the ES classification of circuits and parts that are accessible to ordinary persons should be reconsidered when it's employed in the end-use equipment.
- Upon request, an Electric Strength test voltage of 2,500 Vdc has been applied between inputs and outputs according to manufacturer's specification.
- Tests for Abnormal operating and Single Fault conditions were carried out with an external, Fast-Acting fuse having a current rating of 1 A maximum. Tests should be repeated when it's employed in the end-use equipment with a differently rated overcurrent protective device.
- This component DC-to-DC converter has been evaluated for Functional Insulation and is intended to be installed in an isolated (non-mains) ES3 circuit (hazardous voltage secondary circuit) which is separated from a.c. mains ES3 circuit (primary circuit) by Double or Reinforce Insulation.

**Nomenclature:** N/A