



Certificate Number: A41-UL

Date: 2023-07-06

## UL CONDITIONS OF ACCEPTABILITY

**Company Name:** TRACO ELECTRONIC AG

**File-CCN:** E188913 – QQGQ2, QQGQ8, QQJQ2, QQJQ8

**Product Description:** DC/DC Converter

**Models:** TMR 9-4819Wlzzzzzzzz, TMR 9-2419Wlzzzzzz

### 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 following secondary output circuits are SEPLV: Output of all models
- The following secondary output circuits are at non-hazardous energy levels: Output of all models
- The following output terminals were referenced to earth during performance testing: -V0, COM
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The investigated Pollution Degree is: 2
- The following end-product enclosures are required: Mechanical, Fire, Electrical
- DC/DC converter is providing Functional isolation from input to output circuit. All clearance/creepage and dielectric strength test requirements are requested by manufacturer
- When installed in the end product, the device shall be enclosed completely and shall not be touched by users.
- The component is considered as having functional insulation between the input and output and shall be only connected to an isolated secondary circuit which is separated from primary circuit by Reinforced or Double insulation.
- Electrical enclosure (for ES safeguard), fire enclosure (for PS safeguard), mechanical enclosure (for MS safeguard), and safeguard for thermal burn injury (for TS safeguard) shall be provided and evaluated in end product investigation.

### Nomenclature:

Where “z” may be any alphanumeric character, “-” or blank for market purpose.