

Certificate Number: 121621X3-A6004

Date: 2023-06-21

UL CONDITIONS OF ACCEPTABILITY

Company Name: TRACO ELECTRONIC AG

File-CCN: E188913- QQJQ2, QQJQ8

Product Description: POWER SUPPLIES FOR USE WITH AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - COMPONENT

Models: THN 10-2410WIRzzzzzz(&), THN 10-2411WIRzzzzzz(&), THN 10-2412WIRzzzzzz(&), THN 10-2413WIRzzzzzz(&), THN 10-2415WIRzzzzzz(&), THN 10-2421WIRzzzzzz(&), THN 10-2422WIRzzzzzz(&), THN 10-2423WIRzzzzzz(&), THN 10-2425WIRzzzzzz(&), THN 10-4810WIRzzzzzz(&), THN 10-4811WIRzzzzzz(&), THN 10-4812WIRzzzzzz(&), THN 10-4813WIRzzzzzz(&), THN 10-4815WIRzzzzzz(&), THN 10-4821WIRzzzzzz(&), THN 10-4822WIRzzzzzz(&), THN 10-4823WIRzzzzzz(&), THN 10-4825WIRzzzzzz(&), THN 10-7210WIRzzzzzz(&), THN 10-7211WIRzzzzzz(&), THN 10-7212WIRzzzzzz(&), THN 10-7213WIRzzzzzz(&), THN 10-7215WIRzzzzzz(&), THN 10-7221WIRzzzzzz(&), THN 10-7222WIRzzzzzz(&), THN 10-7223WIRzzzzzz(&), THN 10-7225WIRzzzzzz(&)

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 output circuits are at ES1 energy levels : Outputs
- The following output circuits are at PS2 energy levels : Outputs
- The terminals of the DC-DC Converter are only suitable for factory wiring only.
- The DC-DC Converter was evaluated for Functional Insulation and is intended to be installed in an isolated (non-mains) ES3 circuit which is separated from a.c. mains circuit by Double or Reinforced Insulation.
- The need for suitable electrical enclosure (for ES safeguard), fire enclosure (for PS safeguard), and safeguard for thermal burn injury (for TS safeguard) is to be evaluated and provided (if necessary) in the end-product.
- The current rating of protective device is to be evaluated in the end-product. Simulated Abnormal Operating Conditions Test and Simulated Single Fault Conditions Test were carried out with an external time delay fuse rating as follows: (1) Rated 2 A for THN 10-241xWIRzzzzzz, THN 10-242xWIRzzzzzz series, (2) Rated 1.5 A for THN 10-481xWIRzzzzzz, THN 10-482xWIRzzzzzz series, (3) Rated 1 A for THN 10-1101xWIRzzzzzz, THN 10-1102xWIRzzzzzz series. Repeating Simulated Abnormal Operating Conditions Test and Simulated Single Fault Conditions Test in the end-product shall be considered if using different rated protective device. UL Recognized Component Fuse used and rated to at least the maximum allowable DC input voltage.
- Class of equipment shall be evaluated in end-product.
- The product was investigated to the electric strength 3000 Vdc between input and output circuits declared by manufacturer.

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Ratings: All models are similar except for input rating, output ratings, PCB layout, schematic, windings of transformer, ambient and model designation.

Model No.	Transformer No.	Input Voltage Range	Rated Input Current (A)	Output Voltage (Vdc)	Output Current (A)	PCB
THN 10-2410WIRzzzzzz(&)	X'FM1	9 - 36 Vdc	1.264	3.3	3	A or G
THN 10-2411WIRzzzzzz(&)	X'FM2		1.248	5	2	A or G
THN 10-2412WIRzzzzzz(&)	X'FM3		1.243	12	0.83	B or H
THN 10-2413WIRzzzzzz(&)	X'FM4		1.241	15	0.67	B or H
THN 10-2415WIRzzzzzz(&)	X'FM5		1.244	24	0.42	B or H
THN 10-2421WIRzzzzzz(&)	X'FM6		1.292	±5	±1.0	C or I
THN 10-2422WIRzzzzzz(&)	X'FM3		1.246	±12	±0.416	C or I
THN 10-2423WIRzzzzzz(&)	X'FM4		1.247	±15	±0.333	C or I
THN 10-2425WIRzzzzzz(&)	X'FM5		1.244	±24	±0.210	C or I
THN 10-4810WIRzzzzzz(&)	X'FM7	18 - 75 Vdc	0.632	3.3	3	A or G
THN 10-4811WIRzzzzzz(&)	X'FM8		0.624	5	2	A or G
THN 10-4812WIRzzzzzz(&)	X'FM9		0.622	12	0.83	B or H
THN 10-4813WIRzzzzzz(&)	X'FM10		0.62	15	0.67	B or H
THN 10-4815WIRzzzzzz(&)	X'FM11		0.622	24	0.42	B or H
THN 10-4821WIRzzzzzz(&)	X'FM12		0.646	±5	±1.0	C or I
THN 10-4822WIRzzzzzz(&)	X'FM9		0.623	±12	±0.416	C or I
THN 10-4823WIRzzzzzz(&)	X'FM10		0.624	±15	±0.333	C or I
THN 10-4825WIRzzzzzz(&)	X'FM11		0.622	±24	±0.210	C or I
THN 10-7210WIRzzzzzz(&)	X'FM13	36 - 160 Vdc	0.316	3.3	3	D
THN 10-7211WIRzzzzzz(&)	X'FM14		0.316	5	2	D
THN 10-7212WIRzzzzzz(&)	X'FM15		0.311	12	0.83	E
THN 10-7213WIRzzzzzz(&)	X'FM16		0.314	15	0.67	E
THN 10-7215WIRzzzzzz(&)	X'FM17		0.315	24	0.42	E
THN 10-7221WIRzzzzzz(&)	X'FM18		0.327	±5	±1.0	F
THN 10-7222WIRzzzzzz(&)	X'FM15		0.312	±12	±0.416	F
THN 10-7223WIRzzzzzz(&)	X'FM16		0.312	±15	±0.333	F
THN 10-7225WIRzzzzzz(&)	X'FM17		0.315	±24	±0.210	F

Nomenclature: (&) - z can be any alphanumeric or dash or blank