



Certificate Number: 061114X2-A37

Date: 2019-07-12

UL CONDITIONS OF ACCEPTABILITY

Company Name: TRACO ELECTRONIC AG

File-CCN: E188913-QQQQ2/8

Product Description: DC to DC Converter

Models: TMR 6-2410WIRzzzzzzz, TMR 6-2411WIRzzzzzzz, TMR 6-2419WIRzzzzzzz, TMR 6-2412WIRzzzzzzz, TMR 6-2413WIRzzzzzzz, TMR 6-2415WIRzzzzzzz, TMR 6-2421WIRzzzzzzz, TMR 6-2422WIRzzzzzzz, TMR 6-2423WIRzzzzzzz, TMR 6-4810WIRzzzzzzz, TMR 6-4811WIRzzzzzzz, TMR 6-4819WIRzzzzzzz, TMR 6-4812WIRzzzzzzz, TMR 6-4813WIRzzzzzzz, TMR 6-4815WIRzzzzzzz, TMR 6-4821WIRzzzzzzz, TMR 6-4822WIRzzzzzzz, TMR 6-7210WIRzzzzzzz, TMR 6-7211WIRzzzzzzz, TMR 6-7219WIRzzzzzzz, TMR 6-7212WIRzzzzzzz, TMR 6-7213WIRzzzzzzz, TMR 6-7215WIRzzzzzzz, TMR 6-7221WIRzzzzzzz, TMR 6-7222WIRzzzzzzz, TMR 6-7223WIRzzzzzzz, TMR 3-2410WIRzzzzzzz, TMR 3-2411WIRzzzzzzz, TMR 3-2419WIRzzzzzzz, TMR 3-2412WIRzzzzzzz, TMR 3-2413WIRzzzzzzz, TMR 3-2415WIRzzzzzzz, TMR 3-2421WIRzzzzzzz, TMR 3-2422WIRzzzzzzz, TMR 3-2423WIRzzzzzzz, TMR 3-4810WIRzzzzzzz, TMR 3-4811WIRzzzzzzz, TMR 3-4819WIRzzzzzzz, TMR 3-4812WIRzzzzzzz, TMR 3-4813WIRzzzzzzz, TMR 3-4815WIRzzzzzzz, TMR 3-4821WIRzzzzzzz, TMR 3-4822WIRzzzzzzz, TMR 3-4823WIRzzzzzzz, TMR 3-7210WIRzzzzzzz, TMR 3-7211WIRzzzzzzz, TMR 3-7219WIRzzzzzzz, TMR 3-7212WIRzzzzzzz, TMR 3-7213WIRzzzzzzz, TMR 3-7215WIRzzzzzzz, TMR 3-7221WIRzzzzzzz, TMR 3-7222WIRzzzzzzz, TMR 3-7223WIRzzzzzzz

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

Conditions Of Acceptability:

The following secondary output circuits are SELV: Output

The following secondary output circuits are at non-hazardous energy levels: Output

The following output terminals were referenced to earth during performance testing: -V0 and COM

The power supply terminals and/or connectors are: Suitable for field wiring

The investigated Pollution Degree is: 2

The following end-product enclosures are required: Electrical / Fire

DC to DC Converter provided with Functional Insulation from input to output circuit. All clearance/creepage and Electric Strength Test requirements are requested by manufacturer.

The component is provided with 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.

Slow-blow External Fuse.

Input Range	TMR 3-2410WIRzzzzzzz TMR 3-2411WIRzzzzzzz TMR 3-2419WIRzzzzzzz TMR 3-2412WIRzzzzzzz TMR 3-2413WIRzzzzzzz TMR 3-2415WIRzzzzzzz TMR 3-2421WIRzzzzzzz TMR 3-2422WIRzzzzzzz TMR 3-2423WIRzzzzzzz TMR 3-4810WIRzzzzzzz TMR 3-4811WIRzzzzzzz TMR 3-4819WIRzzzzzzz TMR 3-4812WIRzzzzzzz TMR 3-4813WIRzzzzzzz TMR 3-4815WIRzzzzzzz TMR 3-4821WIRzzzzzzz TMR 3-4822WIRzzzzzzz TMR 3-4823WIRzzzzzzz TMR 3-7210WIRzzzzzzz TMR 3-7211WIRzzzzzzz TMR 3-7219WIRzzzzzzz TMR 3-7212WIRzzzzzzz TMR 3-7213WIRzzzzzzz TMR 3-7215WIRzzzzzzz TMR 3-7221WIRzzzzzzz TMR 3-7222WIRzzzzzzz TMR 3-7223WIRzzzzzzz	TMR 6-2410WIRzzzzzzz TMR 6-2411WIRzzzzzzz TMR 6-2419WIRzzzzzzz TMR 6-2412WIRzzzzzzz TMR 6-2413WIRzzzzzzz TMR 6-2415WIRzzzzzzz TMR 6-2421WIRzzzzzzz TMR 6-2422WIRzzzzzzz TMR 6-2423WIRzzzzzzz TMR 6-4810WIRzzzzzzz TMR 6-4811WIRzzzzzzz TMR 6-4819WIRzzzzzzz TMR 6-4812WIRzzzzzzz TMR 6-4813WIRzzzzzzz TMR 6-4815WIRzzzzzzz TMR 6-4821WIRzzzzzzz TMR 6-4822WIRzzzzzzz TMR 6-7210WIRzzzzzzz TMR 6-7211WIRzzzzzzz TMR 6-7219WIRzzzzzzz TMR 6-7212WIRzzzzzzz TMR 6-7213WIRzzzzzzz TMR 6-7215WIRzzzzzzz TMR 6-7221WIRzzzzzzz TMR 6-7222WIRzzzzzzz TMR 6-7223WIRzzzzzzz
9-36 Vdc	0.8 A	1.25 A
18-75 Vdc	0.5 A	0.63 A
43-160 Vdc	0.16 A	0.315 A

Ratings:

ML Model	Input Voltage Range (Vdc)	Input Current (A)	Output Voltage (Vdc)	Output Current (mA)	Transformer	Layout
TMR 6-2410WIRzzzzzzz	9 - 36 Vdc	0.723	3.3 Vdc	1500 mA	1	C
TMR 6-2411WIRzzzzzzz	9 - 36 Vdc	0.823	5.0 Vdc	1200 mA	2	C
TMR 6-2419WIRzzzzzzz	9 - 36 Vdc	0.812	9.0 Vdc	666 mA	3	C
TMR 6-2412WIRzzzzzzz	9 - 36 Vdc	0.803	12 Vdc	500 mA	4	D
TMR 6-2413WIRzzzzzzz	9 - 36 Vdc	0.793	15 Vdc	400 mA	5	D
TMR 6-2415WIRzzzzzzz	9 - 36 Vdc	0.803	24 Vdc	250 mA	6	D
TMR 6-2421WIRzzzzzzz	9 - 36 Vdc	0.823	±5.0 Vdc	±600 mA	7	E
TMR 6-2422WIRzzzzzzz	9 - 36 Vdc	0.803	±12 Vdc	±250 mA	8	E

TMR 6-2423WIRzzzzzzz	9 - 36 Vdc	0.803	± 15 Vdc	± 200 mA	9	E
TMR 6-4810WIRzzzzzzz	18 - 75 Vdc	0.357	3.3 Vdc	1500 mA	43101	C
TMR 6-4811WIRzzzzzzz	18 - 75 Vdc	0.411	5.0 Vdc	1200 mA	11	C
TMR 6-4819WIRzzzzzzz	18 - 75 Vdc	0.411	9.0 Vdc	666 mA	12	C
TMR 6-4812WIRzzzzzzz	18 - 75 Vdc	0.401	12 Vdc	500 mA	43102	D
TMR 6-4813WIRzzzzzzz	18 - 75 Vdc	0.401	15 Vdc	400 mA	43103	D
TMR 6-4815WIRzzzzzzz	18 - 75 Vdc	0.401	24 Vdc	250 mA	43104	D
TMR 6-4821WIRzzzzzzz	18 - 75 Vdc	0.416	± 5.0 Vdc	± 600 mA	16	E
TMR 6-4822WIRzzzzzzz	18 - 75 Vdc	0.401	± 12 Vdc	± 250 mA	43105	E
TMR 6-7210WIRzzzzzzz	43 - 160 Vdc	0.144	3.3 Vdc	1500 mA	43106	F
TMR 6-7211WIRzzzzzzz	43 - 160 Vdc	0.168	5.0 Vdc	1200 mA	43107	F
TMR 6-7219WIRzzzzzzz	43 - 160 Vdc	0.164	9.0 Vdc	666 mA	43108	F
TMR 6-7212WIRzzzzzzz	43 - 160 Vdc	0.162	12 Vdc	500 mA	43109	F
TMR 6-7213WIRzzzzzzz	43 - 160 Vdc	0.162	15 Vdc	400 mA	43110	F
TMR 6-7215WIRzzzzzzz	43 - 160 Vdc	0.162	24 Vdc	250 mA	43111	F
TMR 6-7221WIRzzzzzzz	43 - 160 Vdc	0.168	± 5.0 Vdc	± 600 mA	43112	G
TMR 6-7222WIRzzzzzzz	43 - 160 Vdc	0.162	± 12 Vdc	± 250 mA	43109	G
TMR 6-7223WIRzzzzzzz	43 - 160 Vdc	0.162	± 15 Vdc	± 200 mA	43110	G
TMR 3-2410WIRzzzzzzz	9 - 36 Vdc	0.338	3.3 Vdc	700 mA	43113	C
TMR 3-2411WIRzzzzzzz	9 - 36 Vdc	0.412	5.0 Vdc	600 mA	43114	C
TMR 3-2419WIRzzzzzzz	9 - 36 Vdc	0.411	9.0 Vdc	333 mA	43115	C
TMR 3-2412WIRzzzzzzz	9 - 36 Vdc	0.402	12 Vdc	250 mA	43116	C
TMR 3-2413WIRzzzzzzz	9 - 36 Vdc	0.402	15 Vdc	200 mA	43117	C
TMR 3-2415WIRzzzzzzz	9 - 36 Vdc	0.407	24 Vdc	125 mA	43118	C
TMR 3-2421WIRzzzzzzz	9 - 36 Vdc	0.417	± 5.0 Vdc	± 300 mA	43119	E
TMR 3-2422WIRzzzzzzz	9 - 36 Vdc	0.406	± 12 Vdc	± 125 mA	43116	E
TMR 3-2423WIRzzzzzzz	9 - 36 Vdc	0.406	± 15 Vdc	± 100 mA	43120	E
TMR 3-4810WIRzzzzzzz	18 - 75 Vdc	0.171	3.3 Vdc	700 mA	43121	C
TMR 3-4811WIRzzzzzzz	18 - 75 Vdc	0.206	5.0 Vdc	600 mA	43122	C
TMR 3-4819WIRzzzzzzz	18 - 75 Vdc	0.206	9.0 Vdc	333 mA	43123	C

TMR 3-4812WIRzzzzzzz	18 - 75 Vdc	0.203	12 Vdc	250 mA	43124	C
TMR 3-4813WIRzzzzzzz	18 - 75 Vdc	0.203	15 Vdc	200 mA	43125	C
TMR 3-4815WIRzzzzzzz	18 - 75 Vdc	0.203	24 Vdc	125 mA	43126	C
TMR 3-4821WIRzzzzzzz	18 - 75 Vdc	0.208	± 5.0 Vdc	± 300 mA	43122	E
TMR 3-4822WIRzzzzzzz	18 - 75 Vdc	0.203	± 12 Vdc	± 125 mA	43123	E
TMR 3-4823WIRzzzzzzz	18 - 75 Vdc	0.203	± 15 Vdc	± 100 mA	43124	E
TMR 3-7210WIRzzzzzzz	43 - 160 Vdc	0.071	3.3 Vdc	700 mA	43137	F
TMR 3-7211WIRzzzzzzz	43 - 160 Vdc	0.087	5.0 Vdc	600 mA	43138	F
TMR 3-7219WIRzzzzzzz	43 - 160 Vdc	0.086	9.0 Vdc	333 mA	43139	F
TMR 3-7212WIRzzzzzzz	43 - 160 Vdc	0.085	12 Vdc	250 mA	43140	F
TMR 3-7213WIRzzzzzzz	43 - 160 Vdc	0.084	15 Vdc	200 mA	43141	F
TMR 3-7215WIRzzzzzzz	43 - 160 Vdc	0.084	24 Vdc	125 mA	43142	F
TMR 3-7221WIRzzzzzzz	43 - 160 Vdc	0.087	± 5.0 Vdc	± 300 mA	43143	G
TMR 3-7222WIRzzzzzzz	43 - 160 Vdc	0.084	± 12 Vdc	± 125 mA	43140	G
TMR 3-7223WIRzzzzzzz	43 - 160 Vdc	0.086	± 15 Vdc	± 100 mA	43141	G

Nomenclature: N/A