

CERTIFICATE

Issued to:
Applicant:
T C I Telecomunicazioni S.r.l.
Via Parma 14
21047 Saronno (VA) - ITALY

Manufacturer/Licensee:
T C I Telecomunicazioni S.r.l.
Via Parma 14
21047 Saronno (VA) - ITALY

Product(s) : Electronic step-down convertor for filament lamps
Trade name(s) : TCI or TN101
Type(s)/model(s) : MW (series)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-2-2:2012; EN 61347-1:2008+A1:2011+A2:2013
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2033016

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

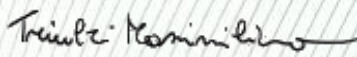
This certificate is issued on: December 22, 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2102455.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Massimiliano Triulzi
Certification Manager

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ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



General product information:									
The devices are electronic controlgears for halogen lamps.									
Type/s	PRI voltage 50-60 Hz (V)	PRI current (A)	SEC power (W)	SEC Voltage (V)	t _a (°C)	t _c (°C)	Protect. Type / value (°C)	Class (IP grade)	Classification
MW 70 or K1055, MW.X70 or K1063	230	0,30	10-70	11,5	40	90	C.5.a 100 [2]	II (IP20)	Independent SELV output
MW70/240 or K1059, MW.X70/240 or K1067	240	0,29							
MW 60 or K1056, MW.X60 or K1064	230	0,26	10-60	11,5	40	90	C.5.a 100 [2]	II (IP20)	Independent SELV output
MW60/240 or K1060, MW.X60/240 or K1068	240	0,25							
MW 50 or K1057, MW.X50 or K1065	230	0,22	10-50	11,5	40	90	C.5.a 100 [2]	II (IP20)	Independent SELV output
MW50/240 or K1061, MW.X50/240 or K1069	240	0,20							
MW 40 or K1058, MW.X40 or K1066	230	0,18	10-40	11,5	40	90	C.5.a 100 [2]	II (IP20)	Independent SELV output
MW40/240 or K1062, MW.X40/240 or K1070	240	0,16							
MW 70 LED or K1209 MW 70 LED 119773 or K1215	230/240	0,30	5-70 [1]	12	40	90	C.5.a 100 [2]	II (IP20)	Independent SELV output
Notes: [1] – Power range for halogen lamps; the load can be 2,5-50 W LED lamps (see DEKRA 2102410.01); [2] – The products have an overheating protection and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 (“F” triangle marking), EN 60598-1:2008, EN 60598-1 /A11:2009, VDE 0710 T14 (“MM” triangle marking). MW 70 LED model can work also with LED lamps; MW 70 LED 119773 is derived from MW 70 LED model, without dimmable feature; all other models are dimmable by trailing edge dimmer (dimming features are detailed in the technical specification).									

Common parameters for MBL/F (series)		
Connection to supply (PRI)	screw terminal block 0,5...1,5 mm² (2,5 mm² for MW 70 LED and MW 70 LED 119773)	
Connection to load (SEC)	screw terminal block 0,5...1,5 mm² (2,5 mm² for MW 70 LED and MW 70 LED 119773)	
Additional information		
All models with enclosure fulfil the requirements for: Impulse withstand category II; Pollution degree 2 (Normal Pollution); Material group IIIa. All models have the following features: output protection to open and short circuit.		
INSULATION	PRI	SEC
PRI	-	double
SEC	double	-
In the final application the connections of external wiring shall be according to IEC 60598-1 or national deviations of the country where installed. Creepage distances and clearances for open frame models shall comply with the requirements of IEC/EN 60598-1 when the device is installed in the final application:		

TESTS

Test requirements

EN 61347-2-2:2012; EN 61347-1:2008+A1:2011+A2:2013

Test result

The test results are laid down in DEKRA test files No.2102455.50

Remarks

This KEMA-KEUR certificate replaces the KEMA-KEUR with number 2033448.01 dated February 02, 2010 and 2102410.02, dated July 23, 2012.

This certificate covers:

- Update to reference standard EN 61347-2-2:2012; EN 61347-1:2008+A1:2011+A2:2013.
- Alternative suppliers for plastic material of enclosure, pwb and terminal blocks.
- MW 70 LED 119773 is derived from MW 70 LED model, without dimmable feature.

Conclusions

The examination proved that all test requirements were met.

Tested by : Massimo Banchelli



Checked by : Franco Vasta



Factory-Location

TCI Telecomunicazioni Italia S.r.l.

Via Parma 14

I-21047 Saronno (VA)