

**OVE Austrian Electrotechnical Association**  
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ENEC Certification Body registered under ID # 11.

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# LICENCE

to use the European Mark



Licence No. **76786-007**

Date of issue: Wien, 2015 04 23

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licenceholder: **ELKOSUN d.o.o.**  
Tržaška cesta 23  
2000 Maribor  
Slovenia

Product: **Electronic circuits used with luminaires, Power changeover switches**

Trade Mark: **ELKOSUN, ELKO, TRIDONIC, ABB, THORN**

Series/Type: **Series ZRM U6..**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

**Austrian Electrotechnical Association**  
Head of Testing & Certification

Digitally signed by W. Martin  
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



## **OVE Testing & Certification**

Accredited by the Federal Ministry of Science, Research and Economy as Certification Body for products within the scope as given in the official decree and published under [www.en.bmwf.w.gv.at/accreditation](http://www.en.bmwf.w.gv.at/accreditation)



<i>Hersteller</i> <i>Manufacturer</i>	<b>ELKOSUN d.o.o.</b> <b>Tržaška cesta 23</b> <b>2000 Maribor</b> <b>Slovenia</b>
<i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	<b>ELKOSUN d.o.o.</b> <b>Tržaška cesta 23</b> <b>2000 Maribor</b> <b>Slovenia</b>
<i>Typenbezeichnung</i> <i>Type reference</i>	<b>ZRM U6L, ZRM U6L/T,</b> <b>ZRM U6M A001, ZRM U6M A003</b>
<i>Prüfbericht</i> <i>Test Report</i>	<b>TGM-VA EE 31857 SFT,</b> <b>TGM-VA EE 31857a SFT,</b> <b>TGM-VA EE 36107 SFT</b>
<i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	<b>ÖVE/ÖNORM EN 61347-1:2012-01-01</b> <b>ÖVE/ÖNORM EN 61347-2-11:2002-06-01</b>
<i>Europannorm(en)</i> <i>European Standard(s)</i>	<b>EN 61347-1:2008 + A1:2011</b> <b>EN 61347-2-11:2001</b>
<i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	<b>7590-058 dated 2008 01 14</b>
<i>Anmerkung(en)</i> <i>Remark(s)</i>	<b>WMT-procedure</b>

*Nennspannung*  
*Rated voltage*

**AC 220-240 V**

*Lampenleistung*  
*Power of lamp*

**I<sub>max.</sub> 6 A (cos φ = 0,5)**

*Lampentyp(en)*  
*Lamp identification*

**To be used with discharge lamps**

*Max. Betriebstemperatur t<sub>c</sub>*  
*Rated max. operating temperature t<sub>c</sub>*

**80°C**

*Umgebungstemperatur t<sub>a</sub>*  
*Rated ambient temperature t<sub>a</sub>*

**70°C**

*Anschlußart*  
*Method of connection*

**Screw terminals**

*Beschreibung des Aufbaus*  
*Description of construction*

**Built-in electronic devices**

*Zusatzinformation*  
*Additional information*

**Power switches ZRM U6L and ZRM U6L/T:** For power reduction with tapped controlgear, contain changeover switch with 2 PTCs. Ensures that a minimal current is maintained during the changeover phase so that the lamp does not go out. ZRM U6L/T also includes a delay circuit. This ensures that each time the lamp is switched on it is operated at full output for a few minutes.

**Power switches ZRM U6M:** Enables automatic switching between the tapings of a ballast to reduce the light. Switches an internal relay at fixed times without an additional control signal. ZRM U6M A001 ensures that a minimal current is maintained through the ballast during the changeover phase so that the lamp does not go out. ZRM U6M A003 is made to switch over electronic ballasts (PCS StepDIM). Here the electronic ballast ensures a minimal current in the switchover phase.

<i>Bauteil</i> <i>Component</i>	<i>Code</i> <i>Code</i>	<i>Hersteller</i> <i>Manufacturer</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
<i>Relay</i>	<b>B</b>	<b>Xiamen Hongfa Electro-acoustics Co. Ltd.</b>	<b>JQX-115F/012, HF115F/012 250V, 16A</b>	<b>VDE</b>
	<b>B</b>	<b>Xiamen Hongfa Electro-acoustics Co. Ltd.</b>	<b>JQX-115F/110, HF115F/012 250V, 16A</b>	<b>VDE</b>
<i>Transformer</i>	<b>B</b>	<b>Hahn</b>	<b>BV EI 301 2215 AC 240V / DC 12V; 0,5VA Short circuit proof</b>	<b>ENEC</b>
<i>Terminals</i>	<b>A</b>	<b>Wieland</b>	<b>99.901.9422.7 AC 500V; 4mm<sup>2</sup></b>	<b>VDE</b>
	<b>A</b>	<b>Wieland</b>	<b>33.011.0653.0 AC 500V; 4mm<sup>2</sup></b>	<b>VDE</b>
<i>Housing material</i>	<b>C</b>	<b>GE Plastics</b>	<b>LEXAN 221R (Polycarbonate)</b>	<b>--</b>
	<b>C</b>	<b>Idemitsu</b>	<b>Tarflon IR 1700 (Polycarbonate)</b>	<b>--</b>

- A The component is replaceable with another one, also certified, with equivalent characteristics.  
 B The component is replaceable if authorised by the test house.  
 C Integrated component tested together with the appliance.  
 D Alternative component.