

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

Validity of ENEC Licences can be checked at [www.enec.com](http://www.enec.com)

# LICENCE

to use the European Mark



Licence No. **76786-006**

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: **Starting devices for discharge lamps**

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

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

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.bmwfw.gv.at/accreditation](http://www.en.bmwfw.gv.at/accreditation)



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p><b>ELKOSUN d.o.o.</b> <b>Tržaška cesta 23</b> <b>2000 Maribor</b> <b>Slovenia</b></p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p><b>ELKOSUN d.o.o.</b> <b>Tržaška cesta 23</b> <b>2000 Maribor</b> <b>Slovenia</b></p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p><b>ZRM 6-ES/C 347,</b> <b>ZRM 6-ES/C 400,</b> <b>ZRM 12-ES/C 400</b></p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p><b>TGM-VAEE 30533g SFT-1/SFT-2</b> <b>TGM-VA EE 36106 SFT</b></p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p><b>ÖVE/ÖNORM EN 61347-1:2012-01-01</b> <b>ÖVE/ÖNORM EN 61347-2-1+A1:2006-10-01</b> <b>ÖVE/ÖNORM EN 60927:2008-06-01</b></p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p><b>EN 61347-1:2008 + A1:2011</b> <b>EN 61347-2-1:2001 + A1:2006</b> <b>EN 60927:2007</b></p>
<p><i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p><b>7590-050 Rev. 02 dated 2010 04 12</b></p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p><b>WMT-procedure.</b></p>

*Nennspannung*  
*Rated voltage*

**AC 347 V, 50/60 Hz (ZRM 6-ES/C 347)**  
**AC 380-415 V, 50/60 Hz (type ZRM 12-ES/C 400)**  
**AC 400-440 V, 50/60 Hz (type ZRM 6-ES/C 400)**

*Lampenleistung*  
*Power of lamp*

**ZRM 6-ES/C .. : 600-750 W (HS)**  
**ZRM 12-ES/C 400: 600-1000 W (HS), 1000-2000 W (HI)**

*Lampentyp(en)*  
*Lamp identification*

**High pressure discharge lamps,**  
**Metal halide (HI), sodium vapour (HS)**

*Zündspannung*  
*Peak voltage*

**4,0-5,0 kV**  
**3,7-5,0 kV (type ZRM 6-ES/C 347)**

*Beschreibung des Aufbaus*  
*Description of construction*

**Built-in starting devices for high-pressure discharge lamps. Enclosure made of insulating material, fulfills requirements for reinforced insulation.**

**Screw-terminals.**

**tc= 105°C**

<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>Capacitor C2 (for types ZRM 6..):</i>	<b>A</b>	<b>various</b>	<b>X1, 310VAC/800VDC</b>	<b>ENEC</b>
<i>Capacitor C1, C2 (for types ZRM 12..):</i>	<b>A</b>	<b>various</b>	<b>X1, 440VAC</b>	<b>ENEC</b>
<i>Terminals</i>	<b>A</b>	<b>Openwise Ind. Ltd.</b>	<b>833BAWP-03 41A, 500V, 2,5-6mm<sup>2</sup></b>	<b>VDE</b>
<i>Housing material</i>	<b>C</b>	<b>GE Plastics</b>	<b>LEXAN 221R (Polycarbonate)</b>	-
	<b>C</b>	<b>Idemitsu</b>	<b>Tarflon IR 1700 (Polycarbonate)</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.