

OVE Austrian Electrotechnical Association
1010 Wien, Eschenbachgasse 9, Austria
ZVR: 327279890 | DVR: 1055887 | www.ove.at

OVE Testing & Certification
1190 Wien, Kahlenberger Str. 2A, Austria
T +43 1 370 58 06 | F +43 1 370 58 06-199



ENEC Certification Body registered under ID # 11.

Validity of ENEC Licences can be checked at www.enec.com

LICENCE

to use the European Mark



Licence No. **76786-005**

Date of issue: Wien, 2015 04 17
Rev. No. 01 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



| | |
|---|--|
| <p><i>Hersteller</i> <i>Manufacturer</i></p> <p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p> | <p>ELKOSUN d.o.o. Tržaška cesta 23 2000 Maribor Slovenia</p> <p>ELKOSUN d.o.o. Tržaška cesta 23 2000 Maribor Slovenia</p> |
| <p><i>Typenbezeichnung</i> <i>Type reference</i></p> | <p>ZRM 2-ES/C, ZRM 2-ES/CT, ZRM 2,5-ES/C, ZRM 2,5-ES/CT, ZRM 4,5-ES/C, ZRM 4,5 ES/CT, ZRM 6-ES/C, ZRM 6-ES/CT, ZRM 6-ES/C 3,5kV (VLA-PSIGN) ZRM 12-ES/C, ZRM 12-ES/CT.</p> |
| <p><i>Prüfbericht</i> <i>Test Report</i></p> <p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p> <p><i>Europannorm(en)</i> <i>European Standard(s)</i></p> | <p>TGM-VA EE 30533f SFT-1/SFT-2 TGM VA EE 36105 SFT</p> <p>ÖVE/ÖNORM EN 61347-1:2012-01-01 ÖVE/ÖNORM EN 61347-2-1+A1:2006-10-01 ÖVE/ÖNORM EN 60927:2008-06-01</p> <p>EN 61347-1:2008 + A1:2011 EN 61347-2-1:2001 + A1:2006 EN 60927:2007</p> |
| <p>* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p> | <p>76786-005 dated 2015 04 17 Items modified are marked with an asterisk (*)</p> |
| <p><i>Anmerkung(en)</i> <i>Remark(s)</i></p> | <p>WMT-procedure.</p> |

| | |
|---|--|
| <i>Nennspannung</i> <i>Rated voltage</i> | AC 220-240 V, 50/60 Hz |
| <i>Lampenleistung</i> <i>Power of lamp</i> | ZRM 2-ES/C: 35-70 W (HS), 70 W (HI) ZRM 2-ES/CT: 35-70 W (HS), 70-150 W (HI) ZRM 2,5-ES/C: 70-250 W (HS), 35-250 W (HI) ZRM 2,5-ES/CT: 70-250 W (HS), 35-250 W (HI) ZRM 4,5 ES/C: 70-400 W (HS), 35-400 W (HI) ZRM 4,5 ES/CT: 70-400 W (HS), 35-400 W (HI) ZRM 6-ES/C: 70-400 W (HS), 35-400 W (HI) ZRM 6-ES/CT: 70-400 W (HS), 35-400 W (HI) ZRM 6-ES/C 3,5kV: 100-575 W (HI) ZRM 12-ES/C: 250-1000 W (HS), 250-1000 W (HI) ZRM 12-ES/CT: 250-1000 W (HS), 250-1000 W (HI) |
| <i>Lampentyp(en)</i> <i>Lamp identification</i> | High pressure discharge lamps, metal halide (HI), sodium vapour (HS) |
| <i>Zündspannung</i> <i>Peak voltage</i> | 1,8-2,5 kV (ZRM 2), 3,0-4,0 kV (ZRM 6-ES/C 3,5kV), 4,0-5,0 kV (ZRM 2,5; ZRM 4,5; ZRM 6; ZRM 12) |
| <i>Beschreibung des Aufbaus</i> <i>Description of construction</i> | 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 2., ZRM 2,5., ZRM 4,5.):</i> | A | various | X1, 310VAC/630VDC | ENEC |
| <i>Capacitor C2 (for types ZRM 6.):</i> | A | various | X1, 310VAC/800VDC | ENEC |
| <i>Capacitor C1, C2 (for types ZRM 12.):</i> | A | various | X2, 275VAC | ENEC |
| <i>Terminals</i> | A | Openwise Ind. Ltd. | 833BAWP-03 41A, 500V, 2,5-6mm² | VDE |
| <i>Housing material</i> | C | GE Plastics | LEXAN 221R (Polycarbonate) | - |
| | C | Idemitsu | Tarflon IR 1700 (Polycarbonate) | - |

- 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.