

AUSTRIAN ELECTROTECHNICAL ASSOCIATION

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LICENCE

to use the European Mark



Licence No. **76786-003**

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The Austrian Electrotechnical Association (ÖVE) 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 the company mentioned below to label the products listed in the Annex with the ENEC-Mark.

Licenceholder: **ELKOSUN d.o.o.**

Kržičeva ulica 9
1000 Ljubljana
Slovenia

Product: **Ballasts for discharge lamps, Series OGL...**

Basis for this given right is the conformity of the products with the requirements of the relevant European Standards as shown in the test report(s) Ref.-No(s). **VAAE 27427 SFT1/SFT2, VAAE 27427A-G SFT1/SFT2, TGM-VAAE 27427H SFT1/SFT2, TGM-VAAE 27427j SFT1/SFT2, TGM-VA EE 35315 SFT-1/SFT-2** 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.

The product satisfies the provisions of the Low Voltage Directive 2006/95/EC.

Österreichischer Verband für Elektrotechnik
Head of Testing & Certification

Digitally signed by W. Martin
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Dipl.-Ing. W. Martin



OVE - Testing & Certification

Accredited by the Austrian Ministry of Economy, Family and Youth as Certification Body for products within the scope as given in the official notification and published under www.en.bmwfj.gv.at/accreditation



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p>Elkosun d.o.o. Tržaška c. 23 2000 Maribor Slovenia</p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>Elkosun d.o.o. Tržaška c. 23 2000 Maribor Slovenia</p>
<p><i>Erzeugnis</i> <i>Product</i></p>	<p>Ballasts for discharge lamps</p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>Series OGL..., OGLI..., OGLS..., OGLIS... See pages 5/7 - 7/7 of Annex</p>
<p><i>Warenzeichen</i> <i>Trade Mark</i></p>	<p>Elkosun, TRIDONIC, ABB, ELEKTROKOVINA (ELKO), FEP</p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p>VAEE 27427 SFT1/SFT2, VAEE 27427A-G SFT1/SFT2, TGM-VAEE 27427H SFT1/SFT2, TGM-VAEE 27427j SFT1/SFT2, TGM-VA EE 35315 SFT-1/SFT-2</p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p>ÖVE/ÖNORM EN 61347-1:2012-01-01 ÖVE/ÖNORM EN 61347-2-9:2007-05-01 ÖVE/ÖNORM EN 60923:2007-06-01</p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p>EN 61347-1:2008 + A1:2011 EN 61347-2-9:2001 + A1:2003 + A2:2006 EN 60923:2005 + A1:2006</p>
<p><i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p>7590-008 Rev. 15 dated 2009 02 06.</p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p>Double/reinforced insulated ballasts with ©-marking, according to Annex I of EN 61347-1.</p>

Nennspannung
Rated voltage

See pages 5/7 - 7/7 of Annex

Nennstrom
Rated current

See pages 5/7 - 7/7 of Annex

Lampenleistung
Power of lamp

See pages 5/7 - 7/7 of Annex

Lampentyp(en)
Lamp identification

High-pressure discharge lamps

Max. Wicklungstemperatur tw
Max. temp. of windings tw

130°C

Temperaturerhöhung
Temperature rise

See pages 5/7 - 7/7 of Annex

Beschreibung des Aufbaus
Description of construction

**Built-in ballast with windings made of copper enamelled wire alternative with tapings; iron core of dynamo sheet and winding-case of PA 6.6.
Insulation material: Nomex or Polyester or PPS-film
Optionally with automatic thermal cut-out.
Types with double/reinforced insulation have multi layer insulation. Double/reinforced insulated types are thermally protected by thermal fuse (link). Please refer Type Code on page 4/7 of Annex for identification.**

<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>Terminal</i>	B	Tridonic conn. techn.	EKL1 BE...PA	ÖVE
	B	Tridonic conn. techn.	EKL2 BE...PA	ÖVE
	B	Tridonic conn. techn.	500 SKT II	ÖVE
	B	Tridonic conn. techn.	KSSL 1M/2 2,5 mm²	VDE
	B	Tridonic conn. techn.	EKL 2 VSG 6 mm²	VDE
	B	Tridonic conn. techn.	VSSL	ÖVE
<i>Thermal cut-out</i>	B	Thermik	S06 ...	VDE
	B	Thermik	.06	VDE
	B	Thermik	C8	VDE
	B	Microtherm	T21 ...	VDE
<i>Thermal fuse link</i>	B	Sung Woo	SW-1	VDE
	B	NEC SCHOTT	SF/E	VDE

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.

Typecode for OG series ballasts

O G = OG cross section

Lamp family:

L			= Mercury vapour lamp
L	I		= Metal halide lamp
L	S		= High pressure sodium lamp
L	I	S	= Metal halide lamp or high pressure sodium lamp

x x x x = Lamp wattage

P = Ballast for TRIDONIC.ATCO impulser type ignitors:
ZRM 2300 C201, ZRM 4000 C201, ZRM 4000 B101,
ZRM 2300 powerPULSE, ZRM 4000 powerPULSE,
ZRM 4000/400 powerPULSE

Temperature rise and losses

x = 1-digit Code (A, B, C, E)

Construction and connections:

0	= Basic insulation (SK1) and screw terminals
1	= Basic insulation (SK1) and spring grip terminals
2	= Reinforced insulation (SK2) and screw terminals
3	= Reinforced insulation (SK2) and spring grip terminals
x x	= 2-digit code (01-99) for free use by the manufacturer


Protection device:

D	= Thermal cut-out, auto-reset type + thermal link
K	= No protection device
W	= Thermal cut-out, auto-reset type



Trademark/Typecode			Lamp	Rated current	High voltage impulse test (acc. Cl. 15.2)	230 V	240 V	220/230 V	230/240 V	220/230/240 V	230/240/250 V	220/230/240/250 V	380/400/420 V	
Elkosun, TRIDONIC, ELKO, Elektrovina, FEP			ABB	[A]		Δt (K)								
1	OGL 250 C...	OGL 250W 30	D 250/23 KS-70-B8	250W HM 250W HI	2,13 2,15	--	65	65	--	65	65	65	--	--
2	OGL 400 C...	OGL 400W 40	D 400/23 KS-70-B8	400W HM	3,25	--	70	75	--	75	75	75	--	--
3	OGL 700 C...	OGL 700W 80	D 700/23 KS-B8	700W HM	5,4	--	60	60	--	60	60	60	--	--
4	OGL 1000 C...	OGL 1000W 120	D 1000/23 KS-B8	1000W HM	7,5	--	70	70	--	70	70	70	--	--
5	OGL 700/400 C...	OGL 700/400W 80	--	700W HM 400W HM	5,4 3,25	--	70 40	70 40	--	70 40	--	--	--	--
6	OGLI 400 C...	OGLI 400W 50	DJ 400/24 KS-K-TP	400W HI 400W HM	3,5 3,25	5 kV	65 55	65 55	--	65 55	65 55	65 55	--	--
7	OGLI 400 PC...	--	--	400W HI	3,5	--	--	--	--	60	--	--	--	--
8	OGLI 2000/10,3 C...	OGLI 2000W 210	--	2000W HI	10,3	--	--	--	--	--	--	--	--	na
9	OGLIS 150 C...	OGLIS 150W 30	--	150W HI 150W HS	1,8 1,8	5 kV	60 60	60 60	--	60 60	60 60	60 60	60 60	--
10	OGLIS 250 C... ¹	OGLIS 250W 40	SOH/DJ 250/24 KS-K-TP	250W HI 250W HS	3,0 3,0	5 kV	70 70	70 70	--	70 70	70 70	70 70	70 70	--
11	OGLIS 250 PC...	--	--	250W HI 250W HS	3,0 3,0	--	80	80	--	80	--	--	--	--
12	OGLIS 250 E...	--	--	250W HI 250W HS	3,0 3,0	--	50 50	50 50	--	50 50	50 50	--	--	--

Trademark/Typecode			Lamp	Rated current	High voltage impulse test (acc. Cl. 15.2)	230 V	240 V	220/230 V	230/240 V	220/230/240 V	230/240/250 V	220/230/240/250 V	380/400/420 V
Elkosun, TRIDONIC, ELKO, Elektrovina, FEP			ABB	[A]		Δt (K)							
13	OGLIS 400 C...	OGLIS 400W 80	--	400W HI	3,5	5 kV	40	40	40	40			
				400W HI	4,0-4,6		65	65	--	65	--	--	--
				400W HS	4,6		65	65	65	65			
14	OGLIS 1000 A...	OGLIS 1000W 140	SOH/DJ 1000/23 KS-K-TP	1000W HI	8,2	--	50	50	--	50	50	50	--
				1000W HI	9,5		65	65	--	65	65	65	--
				1000W HS	10,3		70	70	--	70	70	70	--
15	OGLS 400 C... ¹	OGLS 400W 60	SOH/DJ 400/23 KS-K-TP	400W HI	3,8-4,4	5 kV	75	75	--	75	75	80	--
				400W HS	4,4-4,6		75	75	--	75	75	80	--
16	OGLS 400 E...	--	--	400W HI	3,8-4,4	--	55	55	--	55	--	55	--
				400W HS	4,4-4,6		55	55	--	55	--	55	--
17	OGLS 600 C...	OGLS 600W 100	SOH 600/23 KS-K	600W HS	5,8	--	55	55	--	55	55	60	--
				600W HS	6,2		65	65	--	65	65	70	--
18	OGLS 250/150 C...	OGLS 250/150W 60	--	250W HS	3,0	5 kV	70	70	--	70	--	--	--
				150W HS	1,8		35	35	--	35	--	--	--
19	OGLS 400/250 C...	OGLS 400/250W 80	--	400W HS	4,4-4,6	5 kV	60	65	--	65	--	--	--
				250W HS	3,0		40	45	--	45	--	--	--
20	OGLS 400 PC...	--	--	400W HI	3,8-4,4	--	75	--	--	75	--	--	--
				400W HS	4,4-4,6								
21	OGLSU 250W St50%	--	--	250W HS	3,0	5 kV	65	65	--	65	--	--	--
22	OGLSU 400W St50%	--	--	400W HS	4,6	5 kV	65	65	--	65	--	--	--

Characteristics: All types alternative with automatic thermal cut out.
Types with protective device “D” or “W” with marking  (please refer Type Code on page 4).
Type OGLI 2000/10,3 C... alternative without dissipater, therefore without marking of temperature rise.
 Δt : na = not applicable, no details shown on the product.

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Double/reinforced insulated ballasts with ©-marking, according to Annex I of EN 61347-1.
Identification: see Typecode on page 4.
Double/reinforced insulated ballasts are thermally protected (see Typecode on page 4).