

AUSTRIAN ELECTROTECHNICAL ASSOCIATION

1010 Wien, Eschenbachgasse 9
ZVR: 327279890 DVR: 1055887



Testing & Certification

Kahlenberger Str. 2A
1190 Wien, Austria
Phone: +43 1 370 58 06
Fax: +43 1 370 58 06-199

LICENCE

to use the European Mark



Licence No. **7590-069**

Date of issue: Wien, 2011 08 26
Rev. No. 03 Wien, 2012 06 06

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: **Tridonic GmbH & Co KG**
Färbergasse 15
6851 Dornbirn
Austria

Product: **Electronic ballasts for fluorescent lamps,
Series PCA ... Ip**

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). **TGM-VA EE 33830 SFT-1/SFT-2, TGM-VA EE 33830a SFT-1/SFT-2, TGM-VA EE 33830d SFT-1/SFT-2, TGM-VA EE 33830f SFT-1/SFT-2, TGM-VA EE 33830i 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
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



OVE – Testing & Certification

Accredited by the Austrian Ministry of Economy, Family and Youth as Certification Body for products and processes in the field of electrical and electronic engineering, including safety and EMC



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p>Tridonic GmbH & Co KG Färbergasse 15 6851 Dornbirn Austria</p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>Tridonic GmbH & Co KG Färbergasse 15 6851 Dornbirn Austria</p>
<p><i>Erzeugnis</i> <i>Product</i></p>	<p>Electronic ballasts for fluorescent lamps</p>
<p>* <i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>Series PCA, see page 4/7-7/7 of Annex</p>
<p><i>Warenzeichen</i> <i>Trade Mark</i></p>	<p>TRIDONIC</p>
<p>* <i>Prüfbericht</i> <i>Test Report</i></p>	<p>TGM-VA EE 33830 SFT-1/SFT-2, TGM-VA EE 33830a SFT-1/SFT-2, TGM-VA EE 33830d SFT-1/SFT-2, TGM-VA EE 33830f SFT-1/SFT-2, TGM-VA EE 33830i SFT-1/SFT-2</p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p>ÖVE/ÖNORM EN 61347-1:2009-06-01 ÖVE/ÖNORM EN 61347-2-3+A1+A2:2006-10-01 ÖVE/ÖNORM EN 60929:2007-01-01</p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p>EN 61347-1:2008 EN 61347-2-3:2001+A1:2004+A2:2006 EN 60929:2006</p>
<p>* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p>7590-069 Rev. 02 dated 2011 12 20 Items modified are marked with an asterisk (*)</p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p>Particular additional safety requirements for AC/DC electronic ballasts for maintained emergency lighting operation fulfilled (Appendix J of EN 61347-2-3). WMT-procedure.</p>

<i>Nennspannung</i> <i>Rated voltage</i>	AC 220-240 V 50/60 Hz, DC 220-240 V
* <i>Nennstrom</i> <i>Rated current</i>	see page 4/7-7/7 of Annex
* <i>Lampenleistung</i> <i>Power of lamp</i>	see page 4/7-7/7 of Annex
* <i>Lampentyp(en)</i> <i>Lamp identification</i>	Tubular fluorescent lamps T5 (FDH16), T8 (FD26), Tube compact fluorescent lamps TC-L (FSD), see page 4/7-7/7 of Annex
* <i>Umgebungstemperatur</i> <i>Ambient temperature</i>	see page 4/7-7/7 of Annex
* <i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Built-in electronic ballasts, dimmable, for tubular fluorescent lamps. Types PCA ... EXCEL one4all Ip: DALI, DSI, switchDIM and SMART interface. Dimming range 1-100% Types PCA ... ECO Ip: With restricted sensors and plug functions. DALI, DSI, switchDIM and SMART interface. Dimming range 1-100% Types PCA ... BASIC Ip: With restricted sensors and plug functions. Limited to DSI, switchDIM and SMART functionality. Dimming range 10-100%

<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</i>	A	Epcos	MKP 275V, 150-330nF, X2	VDE
	A	several	250V, 2,2nF, Y2	VDE
<i>Terminal Block</i>	A	WAGO	744 250V, 2A, 0,5-1,0mm²	ENEC 15
	A	Tridonic Connection Technology	ECONCUT 250V, 6A, 0,5-1,0mm²	ENEC 11

- 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.



TRADEMARK / TYPECODE			Lamp used	Rated Current (230V, 50Hz)	Rated operating temp. (tc)	Ambient temperature (ta)	Max. case temperature	Case
TRIDONIC								Metall (M)
				[A]	[°C]	[°C]	[°C]	
*	1	PCA 1x28/54 T5 EXCEL one4all Ip	1x 28W T5 1x 54W T5	0,14 0,26	80 80	75 70	130	M
	2	PCA 1x28/54 T5 ECO Ip	1x 28W T5 1x 54W T5	0,14 0,26	80 80	75 70	130	M
	3	PCA 1x28 T5 BASIC Ip	1x 28W T5	0,14	80	75	130	M
	4	PCA 1x54 T5 BASIC Ip	1x 54W T5	0,26	80	70	130	M
*	5	PCA 1x35/49/80 T5 EXCEL one4all Ip	1x 35W T5 1x 49W T5 1x 55W TC-L 1x 80W T5 1x 80W TC-L	0,18 0,25 0,28 0,40 0,36	85 80 80 80 80	75 70 60 60 60	130	M
	6	PCA 1x35/49/80 T5 ECO Ip	1x 35W T5 1x 49W T5 1x 55W TC-L 1x 80W T5 1x 80W TC-L	0,18 0,25 0,28 0,40 0,36	85 80 80 80 80	75 70 60 60 60	130	M
	7	PCA 1x35 T5 BASIC Ip	1x 35W T5	0,18	85	75	130	M
	8	PCA 1x49 T5 BASIC Ip	1x 49W T5	0,25	80	70	130	M
	9	PCA 1x80 T5 BASIC Ip	1x 55W TC-L 1x 80W T5 1x 80W TC-L	0,28 0,40 0,36	80 80 80	60 60 60	130	M
*	10	PCA 2x35/49 T5 EXCEL one4all Ip	2x 35W T5 2x 49W T5	0,34 0,49	80 80	65 60	130	M



TRADEMARK / TYPECODE			Lamp used	Rated Current (230V, 50Hz)	Rated operating temp. (tc)	Ambient temperature (ta)	Max. case temperature	Case
TRIDONIC								Metall (M)
				[A]	[°C]	[°C]	[°C]	
	11	PCA 2x35/49 T5 ECO Ip	2x 35W T5 2x 49W T5	0,34 0,49	80 80	65 60	130	M
	12	PCA 2x35 T5 BASIC Ip	2x 35W T5	0,34	80	65	130	M
	13	PCA 2x49 T5 BASIC Ip	2x 49W T5	0,49	80	60	130	M
*	14	PCA 2x28/54 T5 EXCEL one4all Ip	2x 28W T5 2x 54W T5	0,28 0,51	80 80	70 55	130	M
	15	PCA 2x28/54 T5 ECO Ip	2x 28W T5 2x 54W T5	0,28 0,51	80 80	70 55	130	M
	16	PCA 2x28 T5 BASIC Ip	2x 28W T5	0,28	80	70	130	M
	17	PCA 2x54 T5 BASIC Ip	2x 54W T5	0,51	80	55	130	M
*	18	PCA 2x80 T5 EXCEL one4all Ip	2x 80W T5 2x 55W TC-L	0,71 0,55	75 75	55 55	130	M
	19	PCA 2x80 T5 ECO Ip	2x 80W T5 2x 55W TC-L	0,71 0,55	75 75	55 55	130	M
	20	PCA 2x80 T5 BASIC Ip	2x 80W T5 2x 55W TC-L	0,71 0,55	75 75	55 55	130	M
*	21	PCA 1x14/24 T5 EXCEL one4all Ip	1x 14W T5 1x 24W T5	0,08 0,12	80 80	70 70	130	M
	22	PCA 1x14/24 T5 ECO Ip	1x 14W T5 1x 24W T5	0,08 0,12	80 80	70 70	130	M
	23	PCA 1x14 T5 BASIC Ip	1x 14W T5	0,08	80	70	130	M
	24	PCA 1x24 T5 BASIC Ip	1x 24W T5	0,12	80	70	130	M



TRADEMARK / TYPECODE			Lamp used	Rated Current (230V, 50Hz)	Rated operating temp. (tc)	Ambient temperature (ta)	Max. case temperature	Case
TRIDONIC								Metal (M)
				[A]	[°C]	[°C]	[°C]	
*	25	PCA 2x14/24 T5 EXCEL one4all Ip	2x 14W T5 2x 24W T5 2x 18W TC-L 2x 24W TC-L	0,14 0,22 0,15 0,21	80 80 80 80	70 65 65 65	130	M
	26	PCA 2x14/24 T5 ECO Ip	2x 14W T5 2x 24W T5 2x 18W TC-L 2x 24W TC-L	0,14 0,22 0,15 0,21	80 80 80 80	70 65 65 65	130	M
	27	PCA 2x14 T5 BASIC Ip	2x 14W T5	0,14	80	70	130	M
	28	PCA 2x24 T5 BASIC Ip	2x 24W T5 2x 18W TC-L 2x 24W TC-L	0,22 0,15 0,21	80 80 80	65 65 65	130	M
*	29	PCA 1x21/39 T5 EXCEL one4all Ip	1x 21W T5 1x 39W T5 1x 36W TC-L 1x 40W TC-L	0,11 0,19 0,16 0,20	80 80 80 80	70 65 65 65	130	M
	30	PCA 1x21/39 T5 ECO Ip	1x 21W T5 1x 39W T5 1x 36W TC-L 1x 40W TC-L	0,11 0,19 0,16 0,20	80 80 80 80	70 65 65 65	130	M
	31	PCA 1x21 T5 BASIC Ip	1x 21W T5	0,11	80	70	130	M
	32	PCA 1x39 T5 BASIC Ip	1x 39W T5 1x 36W TC-L 1x 40W TC-L	0,19 0,16 0,20	80 80 80	65 65 65	130	M

TRADEMARK / TYPECODE			Lamp used	Rated Current (230V, 50Hz)	Rated operating temp. (tc)	Ambient temperature (ta)	Max. case temperature	Case
TRIDONIC								[A]
*	33	PCA 2x21/39 T5 EXCEL one4all Ip	2x 21W T5 2x 39W T5 2x 36W TC-L 2x 40W TC-L	0,21 0,37 0,31 0,40	85 85 85 85	70 65 65 65	130	M
	34	PCA 2x21/39 T5 ECO Ip	2x 21W T5 2x 39W T5 2x 36W TC-L 2x 40W TC-L	0,21 0,37 0,31 0,40	85 85 85 85	70 65 65 65	130	M
	35	PCA 2x21 T5 BASIC Ip	2x 21W T5	0,21	85	70	130	M
	36	PCA 2x39 T5 BASIC Ip	2x 39W T5 2x 36W TC-L 2x 40W TC-L	0,37 0,31 0,40	85 85 85	65 65 65	130	M
	37	PCA 1x18 T8 EXCEL one4all Ip	1x 18W T8	0,08	80	70	130	M
	38	PCA 1x18 T8 ECO Ip	1x 18W T8	0,08	80	70	130	M
	39	PCA 1x18 T8 BASIC Ip	1x 18W T8	0,08	80	70	130	M
	40	PCA 2x18 T8 EXCEL one4all Ip	2x 18W T8	0,16	75	60	130	M
	41	PCA 2x18 T8 ECO Ip	2x 18W T8	0,16	75	60	130	M
	42	PCA 2x18 T8 BASIC Ip	2x 18W T8	0,16	75	60	130	M