	Ref. Certif. No.
	ES1499-M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product Produit	ELECTRONIC BALLAST FOR TUBULAR FLUORESCENT LAMPS
Name and address of the applicant Nom et adresse du demandeur	ESPECIALIDADES LUMINOTÉCNICAS, S.A.U. PI MALPICA, CL E, 11 50016 ZARAGOZA (Spain)
Name and address of the manufacturer Nom et adresse du fabricant	ESPECIALIDADES LUMINOTÉCNICAS, S.A.U. PI MALPICA, CL E NAVE 11 50016 ZARAGOZA (Spain)
Name and address of the factory Nom et adresse de l'usine Note: *when more than one factory, please report on page 2* Note: *lorsque il y plus d'une usine, veuillez utiliser la 2ème page*	SAME AS ABOVE ☐ Additional Information on page 2
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	See Annex
Trademark (if any) Marque de fabrique (si elle existe)	ELT
Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur	-
Model / Type Ref. Ref. de type	See references on the Annex
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2ème page)	☐ Additional Information on page 2
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	IEC 60929:2011 IEC 61347-1:2015 IEC 61347-2-3:2011
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat	201403130072, 201403130071, 201403130069, 201403130070, 2016120778B1-M1

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

AENOR INTERNACIONAL S.A.U.
Cl Génova, 6
ES-28004 MADRID (SPAIN)

Date: 2017-04-27

Signature: Avelino BRITO
General Manager

ANNEX TO CB CERTIFICATE Nº ES1499-M1

CERTIFIED REFERENCES AND THEIR MAIN RATINGS

Product: ELECTRONIC BALLAST FOR TUBULAR FLUORESCENT LAMPS

Trade Mark: ELT

Reference	Rated voltage and frequency	Lamps type and rated power	Rated case temperature (tc) and ambient	Classification of the ballast	General features
BE 213-TC-4-UN-C2	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 13 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	150 ... 320 mA; PF: >0,9; pre-heat starting
BE 213-TC-4-UN	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 13 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	150 ... 320 mA; PF: >0,9; pre-heat starting
BE 213-TC-5-C2	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 13 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	40 ... 130 mA; PF: 0,97; pre-heat starting
BE 213-TC-5	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 13 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	40 ... 130 mA; PF: 0,97; pre-heat starting
BE 218-TC-4-UN-C2	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 18 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	210 ... 400 mA; PF: >0,9; pre-heat starting
BE 218-TC-4-UN	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 18 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	210 ... 400 mA; PF: >0,9; pre-heat starting
BE 218-TC-5-C2	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 18 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	90 ... 170 mA; PF: 0,97; pre-heat starting
BE 218-TC-5	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 18 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	90 ... 170 mA; PF: 0,97; pre-heat starting
BE 226-TC-4-UN-C2	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 26 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	250 ... 550 mA; PF: >0,9; pre-heat starting
BE 226-TC-4-UN	110-240 V; 50/60 Hz and DC	Fluorescent; 2 x 26 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	250 ... 550 mA; PF: >0,9; pre-heat starting
BE 226-TC-5-C2	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 26 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	80 ... 230 mA; PF: 0,97; pre-heat starting
BE 226-TC-5	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 26 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	80 ... 230 mA; PF: 0,97; pre-heat starting
BE 242-TC-5-C2	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 42 W max.	tc = 75 °C; ta: -20 ... +50 °C	Independent, class II: with terminals cover-cap	90 ... 415 mA; PF: 0,97; pre-heat starting
BE 242-TC-5	220-240 V; 50/60 Hz and DC	Fluorescent; 2 x 42 W max.	tc = 75 °C; ta: -20 ... +50 °C	To build-in: without terminals cover-cap	90 ... 415 mA; PF: 0,97; pre-heat starting
BE 324-T5-2	220-240 V~; 50/60 Hz	Fluorescent; 3 x 24 W	tc = 70 °C; ta = -25 … +55 °C	To build-in	80 W; 0,355 A; FP: 0,98
BE 414-T5-2	220-240 V~; 50/60 Hz	Fluorescent; 3 to 4 x 14 W	tc = 70 °C; ta = -20 … +55 °C	To build-in	51 to 62 W; 0,21 to 0,283 A; FP: 0,97
BE-114-35-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HE; 1 x 14, 21, 28 or 35 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,078 ... 0,172 A; PF: 0,97; voltage-driven pre-heat starting

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CERTIFIED REFERENCES AND THEIR PRINCIPAL CHARACTERISTICS

Reference	Rated voltage and frequency	Lamps type and rated power	Rated case temperature (tc) and ambient	Classification of the ballast	General features
BE-118-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 1 x 18 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 85 ... 185 mA; PF: 0,98; pre-heat starting
BE-124-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 1 x 24 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,12 A; PF: 0,98; voltage-driven pre-heat starting
BE-136-2	220-240 V~; 50/60 Hz	Fluorescent; 1 x 36 W	tc = 70 °C; ta = -20 … +50 °C	To build-in	-
BE-136-3	220-240 V~; 50/60 Hz	Fluorescent; 1 x 36 W	tc = 75 °C; ta = -25 … +55 °C	To build-in	38 W; 0,165 A; FP: 0,97
BE-136-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 1 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 0,10 ... 0,38 A; PF: 0,98; pre-heat starting
BE-139-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 1 x 39 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,19 A; PF: 0,98; voltage-driven pre-heat starting
BE-149-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 1 x 49 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,24 A; PF: 0,98; voltage-driven pre-heat starting
BE-154-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 1 x 54 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,26 A; PF: 0,98; voltage-driven pre-heat starting
BE-158-2	220-240 V~; 50/60 Hz	Fluorescent; 1 x 58 W	tc = 70 °C; ta = -20 … +50 °C	To build-in	-
BE-158-3	220-240 V~; 50/60 Hz	Fluorescent; 1 x 58 W	tc = 75 °C; ta = -25 … +55 °C	To build-in	55 W; 0,243 A; FP: 0,97
BE-158-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 1 x 58 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 0,25 ... 0,53 A; PF: 0,98; pre-heat starting
BE-180-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 1 x 80 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,37 A; PF: 0,98; voltage-driven pre-heat starting
BE-214-28-T5-2	220-240 V~; 50/60 Hz	Fluorescent T5-HE; 2 x 14, 21,or 28 W	tc = 70 °C; ta = -20 ... +50 °C	To build-in	In = 0,07 ... 0,29 A; PF: 0,94; voltage-driven pre-heat starting
BE-214-35-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HE; 2 x 14, 21, 28 or 35 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,15 ... 0,34 A; PF: 0,98; voltage-driven pre-heat starting
BE-218-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 2 x 18 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 0,10 ... 0,34 A; PF: 0,95; pre-heat starting
BE-224-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 2 x 24 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,24 A; PF: 0,98; voltage-driven pre-heat starting
BE-236-3	220-240 V~; 50/60 Hz	Fluorescent; 2 x 36 W	tc = 70 °C; ta = -25 … +55 °C	To build-in	70 W; 0,17 - 0,31 A; FP: 0,98

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CERTIFIED REFERENCES AND THEIR PRINCIPAL CHARACTERISTICS

Reference	Rated voltage and frequency	Lamps type and rated power	Rated case temperature (tc) and ambient	Classification of the ballast	General features
BE-236-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 2 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 0,19 ... 0,70 A; PF: 0,98; pre-heat starting
BE-239-T5-S	220-240 V~; 50/60 Hz	Fluorescent T5-HO; 2 x 39 W	tc = 70 °C; ta = -20 ... +55 °C	To build-in	In = 0,36 A; PF: 0,97; voltage-driven pre-heat starting
BE-240-4-UN	220-240 V~; 50/60 Hz	Fluorescent T8; 2 x 36 W	tc = 70 °C; ta = -25 ... +55 °C	To build-in	In = 0,19 ... 0,70 A; PF: 0,95; pre-heat starting
BE-258-3	220-240 V~; 50/60 Hz	Fluorescent; 2 x 58 W	tc = 75 °C; ta = -25 … +55 °C	To build-in	108 W; 0,475 A; FP: 0,98
BE-318-2	220-240 V~; 50/60 Hz	Fluorescent; 3 x 18 W (T8)	tc = 70 °C; ta = -20 … +50 °C	To build-in	-
BE-418-2	220-240 V~; 50/60 Hz	Fluorescent; 4 x 18 W (T8)	tc = 70 °C; ta = -20 … +55 °C	To build-in	-
BE-436-2	220-240 V~; 50/60 Hz	Fluorescent; 4 x 36 W	tc = 70 °C; ta = -20 … +50 °C	To build-in	-