



Ref. Certif. No.

FI 8199IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC**CB TEST CERTIFICATE****CERTIFICAT D'ESSAI OC**Product
ProduitName and address of the applicant
Nom et adresse du demandeurName and address of the manufacturer
Nom et adresse du fabricantName and address of the factory
Nom et adresse de l'usineNote: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} pageRatings and principal characteristics
Valeurs nominales et caractéristiques principalesTrademark (if any)
Marque de fabrique (si elle existe)Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeurModel / Type Ref.
Ref. De typeAdditional information (if necessary may also be reported
on page 2)
Les informations complémentaires (si nécessaire, peuvent
être indiqués sur la 2^{ème} pageA 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 laAs 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 CertificatThis CB Test Certificate is issued by the National Certification Body of Finland
Ce Certificat d'essai OC est établi par l'Organisme National de Certification de Finlande

(SGS Fimko's ref.no. 273106-1)

Date: 26 February 2014

Signature:

SGS Fimko LtdPasi Orreveteläinen
Team Leader

Electronic ballast for tubular fluorescent lamps

Helvar Oy Ab
PL 100
FI-03601 KARKKILA, FINLANDHelvar Oy Ab
Yrittäjätie 23
FI-03600 KARKKILA, FINLAND

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☒ Additional Information on page 3

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EL1x54sc, EL1x24sc, EL1x39sc, EL1x49sc, EL1x80sc,
EL4x14sc, EL1x55sc, EL2x55sc, EL1x36sc, EL2x36sc,
EL1x58sc, EL1x70sc, EL1x18sc, EL2x18sc, EL2x58sc,
EL4x18sc, EL1x21sc, EL1x14sc, EL1x28sc, EL1x35sc,
EL2x14sc, EL2x21sc, EL2x24sc, EL2x28sc, EL2x35sc,
EL2x39sc, EL2x49sc, EL2x54sc
-IEC 61347-2-3:2011 (Ed 2)
IEC 61347-1:2007 (Ed 2) + A1:2010 + A2:2012
IEC 60929:2011 (Ed 4)258282-3_A, 258282-2_A, 248578-1c, 258282-1_A,
258282-3_A Amendment-1, 221483-1...4, 221483-6...9,
268862-1_A, 273106-1A, 273106-1C, 273106-1E

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

EL4x14sc, EL4x18sc:

4xFDH-14W-G5 (T5); 220-240V, 50-60Hz; 0,29-0,27A; Tc 80°C; λ 0,98; U-out 400V

4xFD-18W-G13 (T8); 220-240V, 50-60Hz; 0,33-0,30A; Tc 80°C; λ 0,98; U-out 350V

EL2x55sc, EL2x36sc, EL2x18sc, EL2x58sc, EL2x14sc, EL2x21sc, EL2x24sc, EL2x28sc, EL2x35sc,
EL2x39sc, EL2x49sc, EL2x54sc:

2xFDH-14W-G5 (T5); 220-240V, 50-60Hz; 0,15-0,14A; Tc 80°C; λ 0,98; U-out 250V

2xFD-18W-G13 (T8); 220-240V, 50-60Hz; 0,18-0,15A; Tc 80°C; λ 0,98; U-out 250V

2xFDH-21W-G5 (T5); 220-240V, 50-60Hz; 0,22-0,20A; Tc 80°C; λ 0,98; U-out 250V

2xFDH-24W-G5 (T5); 220-240V, 50-60Hz; 0,24-0,20A; Tc 80°C; λ 0,98; U-out 400V

2xFDH-28W-G5 (T5); 220-240V, 50-60Hz; 0,30-0,28A; Tc 80°C; λ 0,98; U-out 350V

2xFDH-35W-G5 (T5); 220-240V, 50-60Hz; 0,36-0,34A; Tc 80°C; λ 0,98; U-out 350V

2xFD-36W-G13 (T8) / 2xFSD-36W-2G11 (TC-L); 220-240V, 50-60Hz; 0,33-0,30A; Tc 80°C; λ 0,98;
U-out 250V

2xFDH-39W-G5 (T5); 220-240V, 50-60Hz; 0,40-0,36A; Tc 80°C; λ 0,98; U-out 400V

2xFDH-49W-G5 (T5); 220-240V, 50-60Hz; 0,50-0,46A; Tc 80°C; λ 0,98; U-out 400V

2xFDH-54W-G5 (T5); 220-240V, 50-60Hz; 0,53-0,49A; Tc 80°C; λ 0,98; U-out 400V

2xFD-55W-2G11 (TC-L); 220-240V, 50-60Hz; 0,53-0,49A; Tc 80°C; λ 0,98; U-out 350V

2xFD-58W-G13 (T8); 220-240V, 50-60Hz; 0,50-0,46A; Tc 80°C; λ 0,98; U-out 400V

EL1x14sc, EL1x18sc, EL1x21sc, EL1x28sc, EL1x35sc, EL1x36sc, EL1x55sc, EL1x58sc, EL1x70sc,
EL1x24sc, EL1x39sc, EL1x49sc, EL1x54sc, EL1x80sc:

1xFDH-14W-G5 (T5); 220-240V, 50-60Hz; 0,08-0,07A; Tc 80°C; λ 0,98; U-out 250V

1xFD-18W-G13 (T8); 220-240V, 50-60Hz; 0,09-0,08A; Tc 70°C; λ 0,98; U-out 250V

1xFDH-21W-G5 (T5); 220-240V, 50-60Hz; 0,11-0,10A; Tc 80°C; λ 0,98; U-out 250V

1xFDH-28W-G5 (T5); 220-240V, 50-60Hz; 0,15-0,14A; Tc 80°C; λ 0,98; U-out 350V

1xFDH-35W-G5 (T5); 220-240V, 50-60Hz; 0,18-0,17A; Tc 80°C; λ 0,98; U-out 350V

1xFD-36W-G13 (T8) / 1xFSD-36W-2G11 (TC-L); 220-240V, 50-60Hz; 0,17-0,16A; Tc 80°C; λ 0,98;
U-out 250V

1xFSDH-55W-2G11 (TC-L); 220-240V, 50-60Hz; 0,28-0,26A; Tc 80°C; λ 0,98; U-out 350V

1xFD-58W-G13 (T8); 220-240V, 50-60Hz; 0,27-0,26A; Tc 80°C; λ 0,98; U-out 400V

1xFD-70W-G13 (T8); 220-240V, 50-60Hz; 0,31-0,27A; Tc 70°C; λ 0,98; U-out 400V

1xFDH-24W-G5 (T5); 220-240V, 50-60Hz; 0,13-0,12A; Tc 80°C; λ 0,98; U-out 400V

1xFDH-39W-G5 (T5); 220-240V, 50-60Hz; 0,20-0,18A; Tc 80°C; λ 0,98; U-out 400V

1xFDH-49W-G5 (T5); 220-240V, 50-60Hz; 0,25-0,23A; Tc 80°C; λ 0,98; U-out 400V

1xFDH-54W-G5 (T5); 220-240V, 50-60Hz; 0,28-0,26A; Tc 80°C; λ 0,98; U-out 400V

1xFDH-80W-G5 (T5); 220-240V, 50-60Hz; 0,41-0,38A; Tc 80°C; λ 0,98; U-out 400V

Additional information (if necessary)

Information complémentaire (si nécessaire)

Date: 26 February 2014

Signature:

SGS Fimko Ltd



Pasi Orreveteläinen
Team Leader

