

CERTIFICATE ENEC/FI 2013018



Our Ref. 249518-4

Product Ballast for fluorescent lamps, tw-marked
Rating and principal characteristics See pages 2-3
Trade mark (if any) HELVAR
Type L...D...series
Name and address of the licensee Helvar Oy Ab
 PL 100
 FI-03601 KARKKILA, FINLAND

Address of the manufacturer Helvar Oy Ab
 Yrittäjätie 23
 FI-03600 KARKKILA, FINLAND

Is in conformity with EN 61347-2-8:2001 + A1:2006
 EN 61347-1:2008 + A1:2011 + A2:2013
 EN 60921:2004 + A1:2006

As shown in the Test Report(s) No(s) 249518-4 Amendment -1 and 249518-4_B

It is authorized to use of the marks ENEC 16 and FI

Validity This certificate is valid until 16 April 2018 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the ENEC 16 and FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for ENEC and FI certification are met.

Directive information The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of this certificate.

With the following limitations -

Date of issue 16 April 2013

Signature **SGS Fimko Ltd**

 Kari Vesterinen
 Product Line Manager



This certificate has 7 pages



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Manufacturing site Helvar Oy Ab
Yrittäjätie 23
FI-03600 KARKKILA
FINLAND

Additional information

TYPE	RATINGS	TEST REPORT No.
L 8 D 230V 50Hz	230V, 50Hz, tw130, Δt 65/ 90 FD- 8W-G5, 0,145A, λ 0,33 FD- 6W-G5, 0,160A, λ 0,30 FD- 4W-G5, 0,170A, λ 0,25 2x FD- 4W-G5, 0,170A, λ 0,35	236360 1_A, 1_B, 1_C, 1_D, 1_E, 249518-4 Amendment -1
L 8 D 240V 50Hz	240V, 50Hz, tw130, Δt 60/ 90 FD- 8W-G5, 0,145A, λ 0,33 FD- 6W-G5, 0,160A, λ 0,30 FD- 4W-G5, 0,170A, λ 0,25 2x FD- 4W-G5, 0,170A, λ 0,35	208654-1, 249518-4 Amendment -1
L 8DL 230V 50Hz	230V, 50Hz, tw130, Δt 55/ 95 FD- 8W-G5, 0,145A, λ 0,35 FD- 6W-G5, 0,160A, λ 0,30 FD- 4W-G5, 0,170A, λ 0,25	229007-1, 229007-2, 229007-3, 249518-4 Amendment -1
L 11 D 230V 50Hz	230V, 50Hz, tw130, Δt 60/ 85 FSD- 11W-G23, 0,155A, λ 0,43 FSD- 9W-G23, 0,170A, λ 0,33 FSD- 7W-G23, 0,180A, λ 0,28 FSD- 5W-G23, 0,180A, λ 0,25 FD- 8W-G5, 0,175A, λ 0,33	237695-1_A, 1_B, 1_C, 1_D, 1_E, 1_F, 249518-4 Amendment -1
L 11DL 230V 50Hz	230V, 50Hz, tw130, Δt 60/ 95 FSD- 11W-G23, 0,155A, λ 0,43 FSD- 9W-G23, 0,170A, λ 0,33 FSD- 7W-G23, 0,180A, λ 0,28	229007-1, 229007-2, 229007-3, 249518-4 Amendment -1
L 13 D 230V 50Hz	230V 50Hz, tw130, Δt 65/ 120 FSQ- 13W-G24d1, 0,175A, λ 0,45 FSQ- 10W-G24d1, 0,190A, λ 0,35 2xFSD- 9W-G23, 0,150A, λ 0,55 2x FSD- 7W-G23, 0,180A, λ 0,45 2x FSD- 5W-G23, 0,180A, λ 0,40 FD-13W-G5, 0,165A, λ 0,45 2x FD- 6W-G5, 0,160A, λ 0,45	237696-1_A, 1_B, 1_C, 1_D, 1_E, 1_F, 1_G, 1_H, 249518-4 Amendment -1
L 13 D 240V 50Hz	240V 50Hz, tw130, Δt 65/ 110 FSQ- 13W-G24d1, 0,175A, λ 0,45 FSQ- 10W-G24d1, 0,190A, λ 0,35 2xFSD- 9W-G23, 0,150A, λ 0,55 2x FSD- 7W-G23, 0,180A, λ 0,45 2x FSD- 5W-G23, 0,180A, λ 0,40 FD-13W-G5, 0,165A, λ 0,45 2x FD- 8W-G5, 0,145A, λ 0,52 2x FD- 6W-G5, 0,160A, λ 0,45	215380-1, 249518-4 Amendment -1

L 13DL 230V 50Hz	230V 50Hz, tw130, Δt 50/ 95 FSQ- 13W-G24d1, 0,175A, λ 0,45 FSQ- 10W-G24d1, 0,190A, λ 0,35 2xFSD- 9W-G23, 0,150A, λ 0,55 2x FSD- 7W-G23, 0,180A, λ 0,45 2x FSD- 5W-G23, 0,180A, λ 0,40 FD-13W-G5, 0,165A, λ 0,45 2x FD- 8W-G5, 0,145A, λ 0,52 2x FD- 6W-G5, 0,160A, λ 0,45	229007-1, 229007-2, 229007-3, 249518-4 Amendment -1
L 16 D 230V 50Hz	230V, 50Hz, tw130, Δt 65/ 150 FSS- 16W- GR8, 0,200A, λ 0,46 FSS- 16W- GR10q, 0,200A, λ 0,46 FD- 16W- G13, 0,200A, λ 0,46, 2x FD- 8W-G5, 0,175A, λ 0,50	237699-1_A, 1_B, 1_C, 1_D, 249518-4 Amendment -1
L 16 DL 230V 50Hz	230V, 50Hz, tw130, Δt 60/ 150, EEI=B1 FSS- 16W- GR8, 0,200A, λ 0,43 FSS- 16W- GR10q, 0,200A, λ 0,43 FD- 16W- G13, 0,200A, λ 0,43	198037-1, 249518-4 Amendment -1 249518-4_B
L 18 D 220V 50Hz	220V, 50Hz, tw130, Δt 65/155 FSQ-18W-G24d2, 0,22A, λ 0,5	207425-1, 249518-4 Amendment -1
L 18 D 230V 50Hz	230V, 50Hz, tw130, Δt 65/155 , EEI=B1 FSQ-18W-G24d2, 0,22A, λ 0,5	237701-1_A, 237701-1_B, 249518-4 Amendment -1
L 18 D 240V 50Hz	240V, 50Hz, tw 130, Δt 65 / 15, EEI=B1 FSQ-18W-G24d2, 0,220A; λ 0,45	220193-1, 220193-2, 249518-4 Amendment -1
L 18 DL 230V 50Hz	230V, 50Hz, tw 130, Δt 60 / 150 FSQ-18W-G24d2, 0,220A; λ 0,45	198037-1, 249518-4 Amendment -1 249518-4_B