

CERTIFICATE

Issued to:
 Applicant:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Licensee:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Product : Built-in LED controlgear
 Trade name(s) : Helvar
 Type(s)/model(s) : LL1x10-42-E-DA, LL1x110-E-DA and LL1x23-80-DA

The product and any acceptable variation thereto as specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 4351636

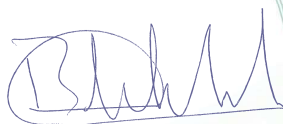
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 19 March 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-138130

DEKRA Certification B.V.



B.T.M. Holtus
 Managing Director



K Xu
 Certification Manager

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 DUTCH ACCREDITATION
 COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Built-in LED controlgear
Trade name(s)	: Helvar
Type(s)/model(s)	: LL1x10-42-E-DA, LL1x110-E-DA and LL1x23-80-DA
Rated input voltage	: 220-240
Nature of supply	: AC/DC
Rated frequency	: 50-60 Hz
Ambient temperature (ta)	: -20-50 °C
No load voltage	: 400 V
Additional information	: non-inherently short-circuit proof, 120 °C thermal protection, EL mark

Product data – type LL1x10-42-E-DA

Input current	: 0,20-0,22 A
Output current	: 1) 120 mA 2) 350 mA
Output Working voltage	: 1) 80...350 Vdc 2) 50...120 Vdc
Output power	: 42 W

Product data – type LL1x110-E-DA

Input current	: 0,44-0,60 A
Output current	: 1) 350 mA 2) 700 mA
Output Working voltage	: 1) 120...314 Vdc 2) 50...157 Vdc
Output power	: 110 W

Product data – type LL1x23-80-DA

Input current	: 0,22-0,42 A
Output current	: 1) 150 mA 2) 350 mA
Output Working voltage	: 1) 150...350 Vdc 2) 64...228 Vdc
Output power	: 1) 52,5 W 2) 80 W

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 490796700.

Additional information

This certificate replaces certificate No. 35-118237 which we hereby declare invalid.

The list of components is laid down in test report 4907967.50,4907967.51.

Conclusion

The examination proved that all requirements were met.

Factory locations

Helvar Oy Ab
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03600 Karkkila, Finland

Trade name : Helvar stands for

Helvar